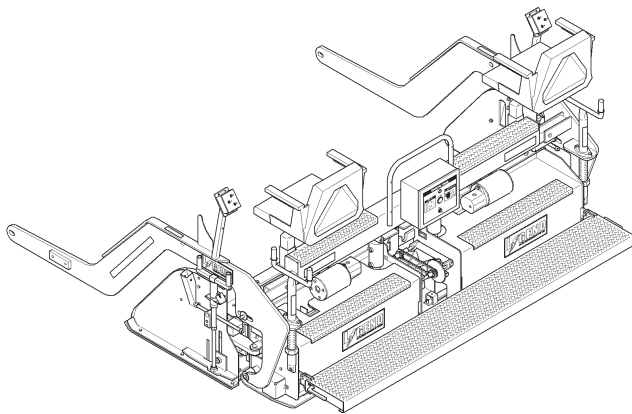
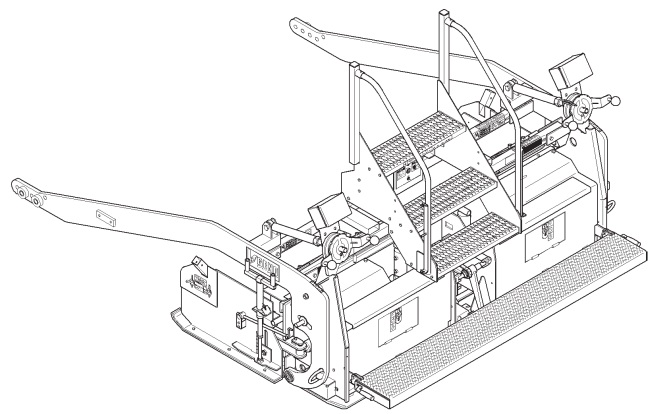




OPERATIONS, SERVICE AND PARTS MANUAL



8515 LEGEND ELECTRIC SCREED



8816 LEGEND ELECTRIC SCREED

LEEBOY MODEL LEGEND ELECTRIC SCREED SYSTEM

Manual No. 986622-01

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This manual has been most recently updated 09/09 to apply to serial number and above:

44482



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NOTES



Section 1

INTRODUCTION

Thank you for purchasing the LeeBoy Model Electric Screed System. We wish you many years of safe and efficient operation of your screed.

READ THIS MANUAL PRIOR TO OPERATING the screed. This manual is an important part of the screed and should be kept with the screed at all times in the dedicated storage container on the screed. Even though you may be familiar with similar equipment, you **MUST** read and understand this manual before operating this screed. Reading the manual will help you and others avoid injury and help prevent any damage to the screed. If this manual becomes lost or damaged, contact your authorized LeeBoy Dealer immediately to order a replacement. See *Contact Information on page 3-3*.

This manual is intended as a guide for the safe and efficient use of the screed. This manual covers the procedures for proper operation and maintenance of the screed. This manual contains information that was available at the time of printing.

This manual provides information for use by the equipment operator under the following headings:

Safety—See Section 2 for important safety guidelines information.

General Information—See Section 3 for important warranty, contact, and nameplate information.

Specifications—See Section 4 for all major system specifications and typical torque value tables.

Component Location—See Section 5 for general overview of controls and major components.

Operation—See Section 6 for control functionality and normal screed operation.

Maintenance—See Section 7 for basic preventive maintenance and repair procedures.

Troubleshooting—See Section 8 for problem descriptions and recommended solution tables.

Schematics—See Section 9 for schematic diagrams of electrical wiring.

Illustrated Parts List—See Section 10 for illustrations, descriptions and part numbers of available service parts.

NOTES



Section 2 SAFETY

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This manual provides important information to familiarize you with safe operating and maintenance procedures. Even though you may be familiar with similar equipment, you **MUST** read and understand this manual before operating the LeeBoy Model Legend Electric Screed System and follow its instructions when operating the screed.

Safety is everyone's business and is our top concern. Knowing the guidelines covered in this section and in Section 1 will help ensure your safety, the safety of those around you and the screed's proper operation.

LOOK FOR THESE SYMBOLS WHICH POINT OUT ITEMS OF EXTREME IMPORTANCE TO THE SAFETY OF YOU AND YOUR COWORKERS. READ AND UNDERSTAND THOROUGHLY. HEED THE WARNING AND FOLLOW THE INSTRUCTIONS.

Keep safety labels in good condition. If safety labels become missing or damaged, replacement safety labels are available from your authorized LeeBoy Dealer.

DANGER

Indicates a hazardous situation which, if not avoided, **will result in death or serious injury.**

WARNING

Indicates a hazardous situation which, if not avoided, **could result in death or serious injury.**

CAUTION

Indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury.**

NOTICE

Indicates a situation which can cause damage to the equipment, personal property and/or the environment, or cause the LeeBoy Model Legend Electric Screed System to operate improperly.

NOTE: Indicates a procedure, practice, or condition that should be followed in order for the screed or component to function in the manner intended.

SAFETY PRECAUTIONS

CAUTION

The safety messages that follow have CAUTION level hazards.

Pre-Operation Hazard



Read and understand this Operation Manual before operating or servicing the engine to ensure that safe operating practices and maintenance procedures are followed.

- Never permit anyone to service or operate the LeeBoy Model Legend Electric Screed System without proper training.
- Safety signs and labels are additional reminders for safe operating and maintenance techniques.
- Contact LeeBoy or an authorized LeeBoy Dealer for additional training.
- Make sure you are aware of all laws and regulations that are in effect where the screed is operated. Make sure you have all necessary licenses to operate the screed.

WARNING

The safety messages that follow have WARNING level hazards.

Crush Hazard

Keep bystanders away from work area before and during operation.

Modification Hazard

Never modify the LeeBoy Model Legend Electric Screed System without written consent of LeeBoy. Any modification can affect the safe operation of the screed and may cause personal injury or death.

Exposure Hazard



Always wear personal protective equipment, including appropriate clothing, gloves, work shoes, and eye and hearing protection, as required by the task at hand.

Explosion Hazard



While the engine is running or the battery is charging, hydrogen gas is being produced and can be easily ignited. Keep the area around the battery well-ventilated and keep sparks, open flame and any other form of ignition out of the area.

- Always disconnect the negative (-) battery cable before servicing the screed.
- Do not start the engine by shorting the starter circuit or any other starting method not stated in this manual. Only use the starting procedure as described in this manual to start the engine.
- Never charge a frozen battery. Always slowly warm the battery to room temperature before charging.

Fire and Explosion Hazard

- Diesel fuel is flammable and explosive under certain conditions.
- Never use a shop rag to catch the fuel.
- Wipe up all spills immediately.
- Never refuel with the engine running.
- Store any containers containing fuel in a well-ventilated area, away from any combustibles or sources of ignition.

Fire Hazard



Have appropriate safety equipment available. Have all fire extinguishers checked periodically for proper operation and/or readiness.

- Always read and follow safety-related precautions found on containers of hazardous substances like parts cleaners, primers, sealants and sealant removers.
- Undersized wiring systems can cause an electrical fire.

WARNING

The safety messages that follow have **WARNING** level hazards.

Exhaust Hazard



All internal combustion engines create carbon monoxide gas during operation and special precautions are required to avoid carbon monoxide poisoning:

- Never block windows, vents or other means of ventilation if the LeeBoy Model Legend Electric Screed System is operating in an enclosed area.
- Always ensure that all connections are tightened to specifications after repair is made to the exhaust system.

Entanglement/Sever Hazard



Verify there are no people, obstacles or other equipment near the LeeBoy Model Legend Electric Screed System before starting the engine. Sound the horn as a warning before starting the engine.



If the engine must be serviced while it is operating, remove all jewelry, tie back long hair and keep hands, other body parts and clothing away from moving/rotating parts.

- Always stop the engine before beginning service.
- Verify that all screed guards and covers are attached properly to the screed before starting the engine. Do not start the engine if any guards or covers are not properly installed on the screed.
- If you must run the engine during maintenance procedures, make sure you have a helper to keep bystanders clear of the screed and make observations of moving parts as requested by the operator.
- Always turn the start switch to the OFF position after operation is complete and remove the key from the switch. Keep the key in your possession when the machine is not operating.
- Attach a “Do Not Operate” tag near the key switch while performing maintenance on the equipment.
- Never operate the engine while wearing a headset to listen to music or radio because it will be difficult to hear the warning signals.

- Always start the engine or operate the controls while you are seated in the operators seat.

Alcohol and Drug Hazard



Never operate the engine while under the influence of alcohol or drugs, or when ill.

Piercing Hazard



Avoid skin contact with high-pressure hydraulic fluid or diesel fuel spray caused by a hydraulic or fuel system leak such as a broken hydraulic hose or fuel injection line. High-pressure hydraulic fluid or fuel can penetrate your skin and result in serious injury. If you are exposed to high-pressure hydraulic fluid or fuel spray, obtain prompt medical treatment.

- Never check for a hydraulic fluid or fuel leak with your hands. Always use a piece of wood or cardboard. Have your authorized LeeBoy Dealer or distributor repair the damage.

Flying Object Hazard



Always wear eye protection when cleaning the LeeBoy Model Legend Electric Screed System with compressed air or high-pressure water. Dust, flying debris, compressed air, pressurized water or steam may injure your eyes.

Coolant Hazard



Wear eye protection and rubber gloves when handling engine coolant. If contact with the eyes or skin should occur, flush eyes and wash immediately with clean water.

Burn Hazard



Some of the screed surfaces become very hot during operation and shortly after shutdown.

- Keep hands and other body parts away from hot screed surfaces.
- Handle hot components with heat-resistant gloves.

CAUTION

The safety messages that follow have CAUTION level hazards.

Poor Lighting Hazard

Ensure that the work area is adequately illuminated.
Always install wire cages on portable safety lights.

Tool Hazard

Always use tools appropriate for the task at hand and use the correct size tool for loosening or tightening LeeBoy Model Legend Electric Screed System parts.

NOTICE

The safety messages that follow have NOTICE level hazards.

Any part which is found defective as a result of inspection or any part whose measured value does not satisfy the standard or limit must be replaced.

Always tighten components to the specified torque. Loose parts can cause LeeBoy Model Legend Electric Screed System damage or cause it to operate improperly.

Only use replacement parts approved by LeeBoy. Other replacement parts may affect warranty coverage.



Follow the guidelines of the EPA or other governmental agencies for the proper disposal of hazardous materials such as engine oil, diesel fuel and engine coolant. Consult the local authorities or reclamation facility.

Clean all accumulated dirt and debris away from the body of the screed and its components before you inspect the screed or perform preventive maintenance procedures or repairs. Operating a screed with accumulated dirt and debris will cause premature wear of screed components. Accumulated dirt and debris also hinders effective screed inspection.

Retrieve any tools or parts that may have dropped inside of the screed to avoid improper screed operation.

Dispose of hazardous materials in accordance with all applicable laws and regulations. Never dispose of hazardous materials by dumping them into a sewer, on the ground, or into groundwater or waterways.

If any alert indicator illuminates during screed operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the screed.

SAFETY LABELS

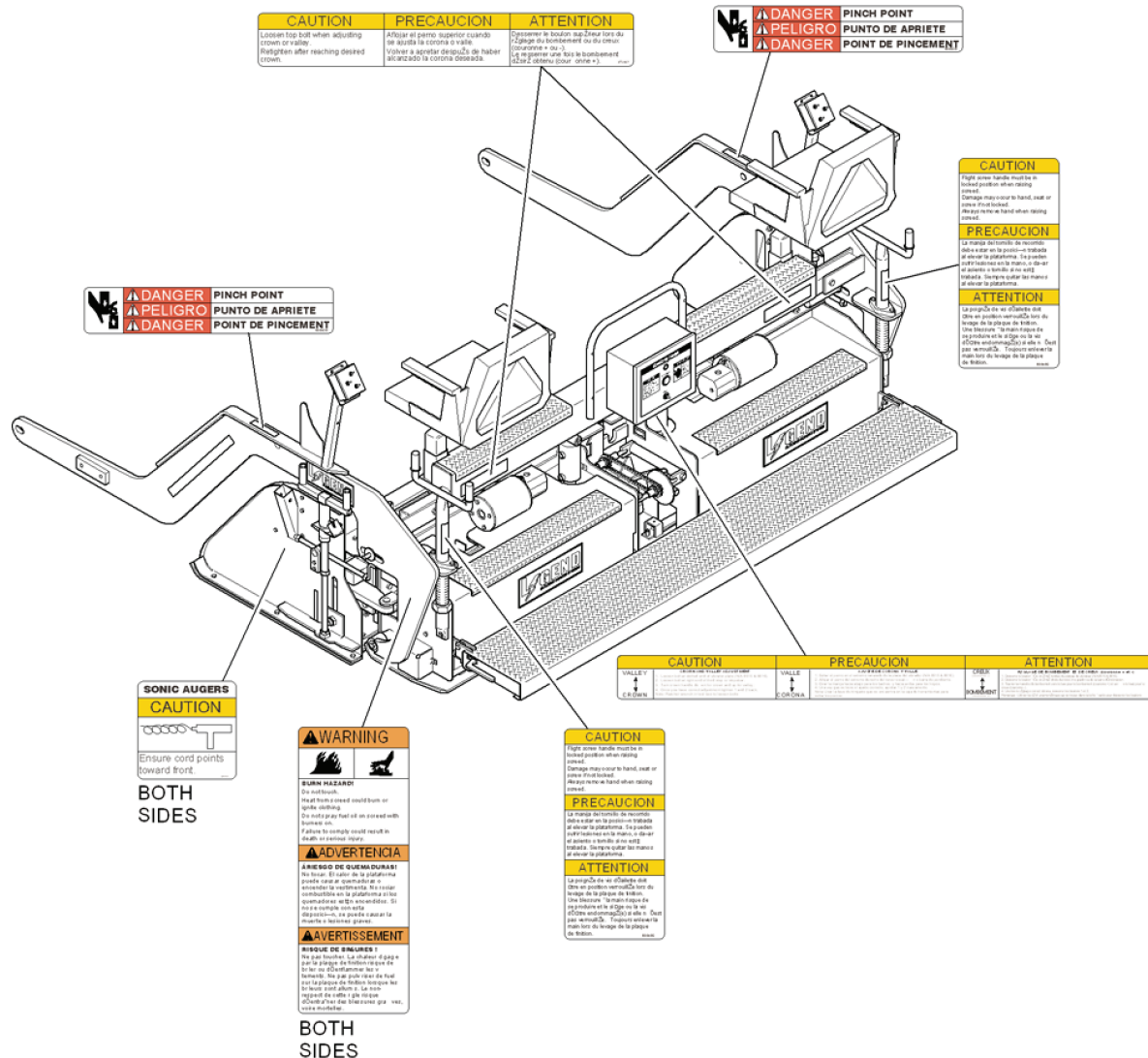
Safety Label Precautions

If your screed has been repainted, it is extremely important that all the safety labels referring to CAUTION, WARNING, and DANGER be replaced in their proper locations. The illustrations on this page will aid you in determining the proper locations; for additional help,

you should refer to the parts listing in the parts section of this manual and note the description column.

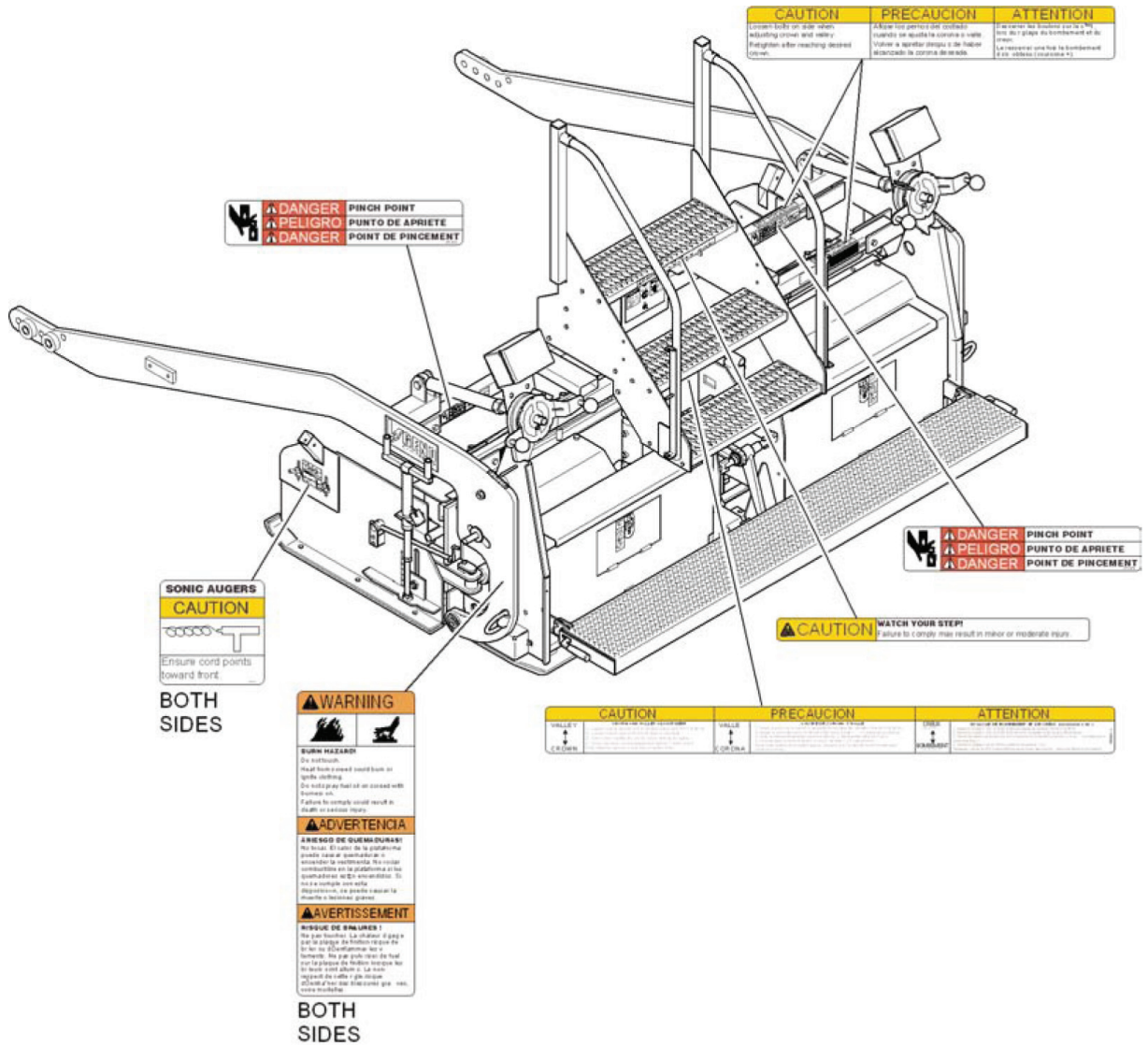
A description of location is provided below for each safety label (**Figures 2-1, 2-2**). For additional instructions, contact your dealer.

NOTE: It is the responsibility of the owner and operator to make sure that all safety labels are readable and located on screed as designated by LeeBoy.



8515 Screed Safety Labels and Safety Label Locations

Figure 2-1



8816 Screed Safety Labels and Safety Label Locations

Figure 2-2

NOTES



Section 3

GENERAL INFORMATION

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Other Limitations.	3-3
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LIMITED WARRANTY POLICY

Warranty

1. Subject to the limitations, exclusions, and claims procedures set forth herein, LeeBoy warrants [to the first retail purchaser] that this product will be free from [substantial] defects in materials and workmanship during the warranty period.
2. If a defect in material or workmanship is found, your authorized LeeBoy Dealer is to be notified during the warranty period. LeeBoy and its authorized Dealer will repair or replace any part or component of the unit or part that fails to conform to the warranty during the warranty period.
3. The warranty period will begin on the initial start-up, training and delivery of the unit by the Dealer to the customer, and will expire after twelve (12) months following the delivery of the paver to the first retail purchaser.
4. Manufacturers' Warranties: Engines are warranted by their manufacturers and may have warranty coverage that differs from that of LeeBoy. LeeBoy does not warrant any engine.
5. Replacement parts furnished by LeeBoy are covered for the remainder of the warranty period applicable to the unit or component in which such parts are installed.
6. LeeBoy has the right to repair any component or part before replacing it with a new one.
7. All new replacement parts purchased by a LeeBoy Dealer will carry a six-month warranty.
8. This Limited Warranty is governed by the laws of the State of North Carolina.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED, STATUTORY AND IMPLIED WARRANTIES APPLICABLE TO UNITS, ENGINES, OR PARTS INCLUDING WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR AGAINST INFRINGEMENT.

Limitations

LeeBoy has no obligation for:

1. Any defects caused by misuse, misapplication, negligence, accident or failure to maintain or use in accordance with the most current operating instructions.
2. Unauthorized alterations.
3. Defects or failures caused by any replacement parts or attachments not manufactured by or approved by LeeBoy.
4. Failure to conduct normal maintenance and operating service including, without limitation, providing lubricants, coolant, fuel, tune-ups, inspections or adjustments.
5. Unreasonable delay, as established by LeeBoy, in making the applicable units or parts available upon notification of a service notice ordered by same.
6. Warranty Responsibility: The warranty responsibility on all engines rests with the manufacturer of the engine.
7. Warranty and Parts Support: LeeBoy may have support agreements with some engine manufacturers for warranty and parts support. However, LeeBoy does not warrant the engine.
8. This Limited Warranty sets forth your sole remedy in connection with the sale or use of the LeeBoy product covered by this Limited Warranty.
9. This Limited Warranty extends only to the first retail purchaser, and is not transferable.
10. In the event any portion of this Limited Warranty shall be determined to be invalid under any applicable law, such provision shall be deemed null and void and the remainder of the Limited Warranty shall continue in full force and effect.

Items Not Covered

LeeBoy is not responsible for the following:

1. All used units or used parts of any kind.
2. Repairs due to normal wear and tear or brought about by abuse or lack of maintenance of the Machine.
3. Attachments not manufactured or installed by LeeBoy.
4. Liability for incidental or consequential damages of any type including, but not limited to, lost profits or expenses of acquiring replacement equipment.
5. Miscellaneous charges.

Other Limitations

IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY OR ALLEGED NEGLIGENCE OR LIABILITY WITHOUT FAULT, SHALL LEEBOY BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFIT OR REVENUE, COST OF CAPITAL, COST OF SUBSTITUTED EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, LABOR COSTS OR CLAIMS OF CUSTOMERS, PURCHASERS OR LESSEES FOR SUCH DAMAGES. IN NO EVENT WILL WARRANTY COMPENSATION, OR OTHER DAMAGES AVAILABLE FROM LEEBOY, EXCEED THE PURCHASE PRICE OF THE PRODUCT.

CONTACT INFORMATION

For information regarding parts and repairs about your LeeBoy product, first contact the dealer you purchased your product from.

If you have a persistent problem your dealer is unable to resolve, contact LeeBoy directly.

Record dealer information in the space provided. For additional information about LeeBoy, please visit: www.leeboy.com.

Sales Representative: _____

Dealership Name: _____

Dealership Address: _____

Dealership Phone: _____

RECORD OF OWNERSHIP

Please fill out the following information and use it when you need to contact LeeBoy for service, parts or literature.

Screed Model Number: _____

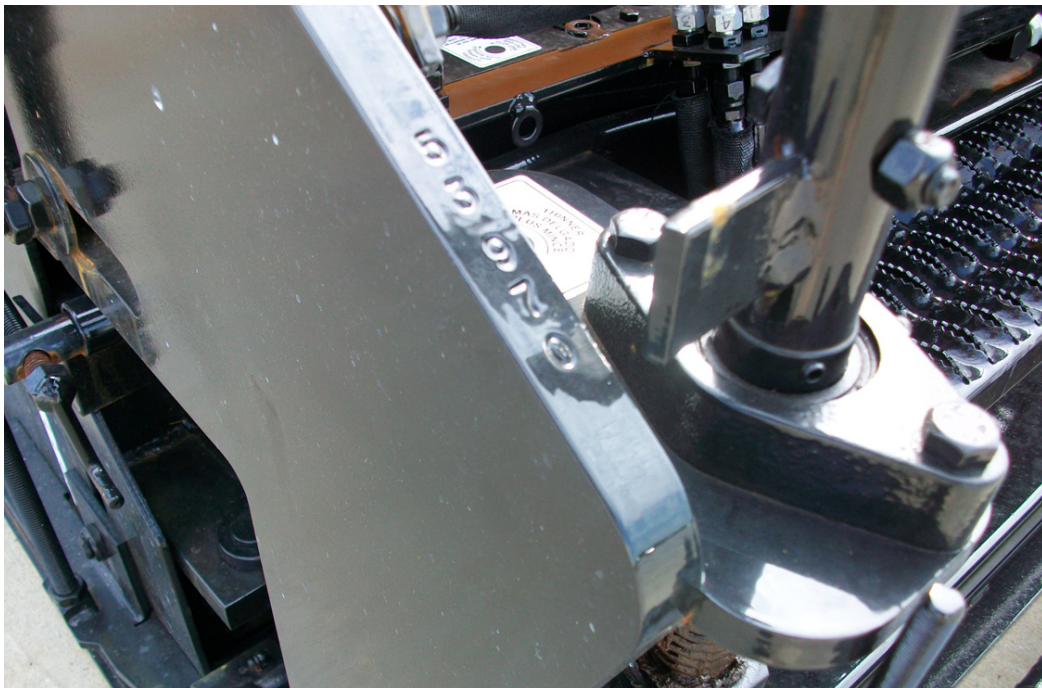
Screed Serial Number: _____

Date of Purchase: _____

SERIAL NUMBER LOCATION

Serial numbers used to identify the components for any parts or service information are stamped on the left

screed arm upper edge (**Figure 3-1**). This serial number is the same as the paver tractor model number shown on the tractor nameplate.



Serial Number Location

Figure 3-1



Section 4

SPECIFICATIONS

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GENERAL INFORMATION

The descriptions and specifications provided in this section are applicable to the LeeBoy Model Legend Electric Screed System.

This section contains a description of how the major components operate. It also includes specifications for the major system components. Included in this section are screed weights, dimensions, performance, and major system specifications for the screed.

MAJOR COMPONENTS

The LeeBoy Model Legend Electric Screed System consists of several major components: the generator, heating controls, and heating elements.

Generator

The generator is the first major component in the LeeBoy Model Legend Electric Screed System. On a LeeBoy Model 8515 or 8816 Asphalt Paver, the generator is mounted on the paver under the hopper floor near the right hand track.

The generator is hydraulically driven by the first section of the rear pump on the engine pump stack. When the paver is at full rpm, and the hydraulic system is at normal operating temperature, the generator should operate at a sufficient speed to produce between 220VAC and 240VAC.

The generator consists of various subcomponents, which are described in more detail in the following subsections:

Speed Control Manifold

All LeeBoy generators are equipped with an integrated generator speed control manifold (**Figure 6-10,1**). This manifold should not require adjustment, but if there is a need to fine tune the generator speed, there is an adjustment on the manifold. See **MAINTENANCE on page 7-8** for generator speed tuning.

NOTICE Generator speed tuning should only be done by an authorized LeeBoy Dealer.

Breaker

All output power from the generator is passed through the main breaker for safety. All output power is lost when this breaker is in the “tripped” or “off” position. The location of the generator main output breaker is shown in **Figure 6-11, 2**.

Heating Controls

The LeeBoy Model Legend Electric Screed System has heating controls to provide the necessary connection and control of the output power from the generator to the heating elements. It is necessary to maintain all components of the heating controls system in good working order to maintain safe and efficient screed heating. These controls are described in more detail in the following subsections:

Heating Control Or Distribution/Control Box

The Heating Control or Distribution/Control Box is mounted near the middle of the screed and is easily accessible to the screed operator when a heating cycle is required.

Once the heat cycle is started, a pre-programmed timer controls the amount of time for output power from the generator to go through the element connection supply plugs coming out of the bottom of the Heating Control Box to the heating elements.

Element Connections

Any element lead can be plugged into any supply plug under the heating control/distribution box. All six plugs are equally rated.

Heating Elements

Next in the screed heating system are the screed heating elements themselves. Each element is sized to fit properly in your screed, and provide sufficient power to heat your screed plate to a temperature that mix will not drag or stick to the lower surface of the screed plate.

To know that the element is correct, you should read a resistance between 28 ohms and 60 ohms. See **MAINTENANCE on page 7-10**.

SPECIFICATIONS

The specifications provided in this section are applicable to the LeeBoy Model Legend Screed System. Included in this section are screed weights,

dimensions, performance, and torque values for both metric and standard inch fasteners.

⚠ CAUTION Replace original equipment only with LeeBoy approved components.

Table 4-1. Dimension Specifications (See Figure 4-1)

ITEM	SPECIFICATION	
	8500 Series Screed	8816 Legend Screed
Basic Paving Width	8' (2.44m)	8' (2.44m)
Maximum Paving Width	15' (4.57m)	15'6" (4.72m)
Screed Plate	3/8" (9.5mm) AR400 Steel	1/2" (12.7mm) AR400 Steel
Main Screed	15" (.38m)	20" (.51m)
Extensions	7" (17.8cm)	12" (30.5cm)
Heating System	Electric	Electric
Extensions Length	3'6" (1.07m)	3'9" (1.14m)
Walkway Width	12" (30.5cm) W/Extension	12" (30.5cm) W/Extension
Weight	2,900 lbs. (1,315kg)	4,500 lbs. (2,041kg)
Overall Width (Transport)	8'6" (2.6m)	8'6" (2.6m)

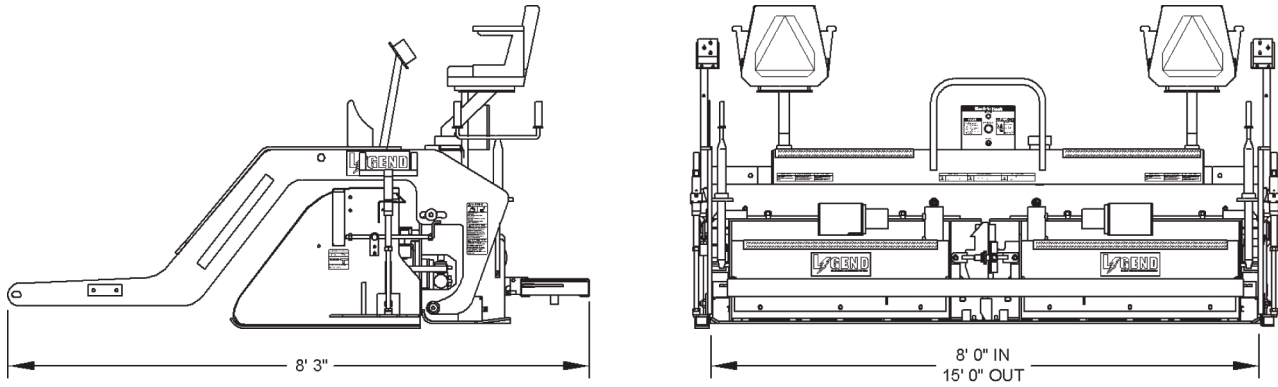
Table 4-2. Screed

ITEM	SPECIFICATION	
	8500 Series Screed	8816 Legend Screed
Heat	Electric	Electric
Extensions	Two 45 inch hydraulically operated extensions	Two 45 inch hydraulically operated extensions
Vibration	Two hydraulic vibrators producing 3400 vibrations per minute	Two hydraulic vibrators producing 3400 vibrations per minute
Crown/Valley	Adjustable, at least 2 inches of crown and 1-1/2 inches of valley	Adjustable, at least 2 inches of crown and 1-1/2 inches of valley
Extensions	Includes a level indicator	Includes a level indicator
Heating System	Electric	Electric



DIMENSIONS

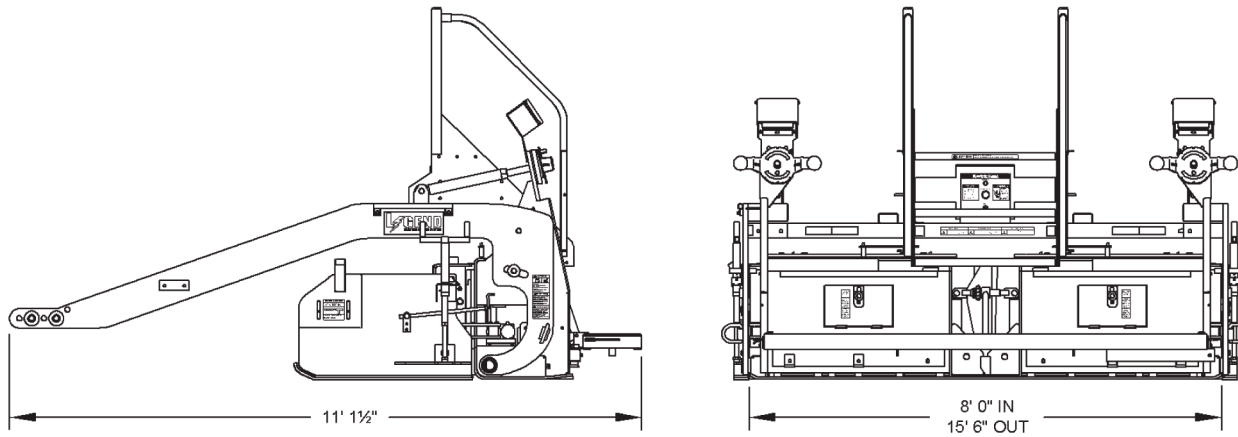
8515 Screed



8515 Legend Electric Screed Dimensions

Figure 4-1

8816 Screed



8816 Legend Electric Screed Dimensions

Figure 4-1

TORQUE SPECS: INCH

⚠ WARNING The following Table lists torque values for standard hardware and are intended as a guide for average application involving typical stresses and machined surfaces. Values are based on

physical limitations of clean, plated and lubricated hardware. In all cases, when an individual torque value is specified, it should be followed instead of values given in this table.

⚠ CAUTION Replace original equipment with hardware of equal grade.

Table 4-3. Torque Specifications For Standard Inch Fasteners

SIZE	THREAD	CAPSCREWS: SAE GRADE 5				CAPSCREWS: SAE GRADE 8			
		TORQUE FT. LBS.		TORQUE N•m		TORQUE FT. LBS.		TORQUE N•m	
		Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
1/4	20 UNC	8	6	11	9	2	9	16	12
	28 UNF	10	7	13	10	14	10	19	14
5/16	18 UNC	17	13	24	18	25	18	33	25
	24 UNF	19	14	26	20	27	20	37	28
3/8	16 UNC	31	23	42	31	44	33	59	44
	24 UNF	35	26	47	36	49	37	67	50
7/16	14 UNC	49	37	67	50	70	52	95	71
	20 UNF	55	41	75	56	78	58	105	79
1/2	13 UNC	75	57	100	77	105	80	145	110
	20 UNF	85	64	115	86	120	90	165	120
9/16	12 UNC	110	82	145	110	155	115	210	155
	18 UNF	120	91	165	125	170	130	230	175
5/8	11 UNC	150	115	205	155	210	160	285	215
	18 UNF	170	130	230	175	240	180	325	245
3/4	10 UNC	265	200	360	270	375	280	510	380
	16 UNF	295	225	405	300	420	315	570	425
7/8	9 UNC	430	320	580	435	605	455	820	615
	14 UNF	475	355	640	480	670	500	905	680
1	8 UNC	645	485	875	655	910	680	1230	925
	14 UNF	720	540	980	735	1020	765	1380	1040
1-1/8	7 UNC	795	595	1080	805	1290	965	1750	1310
	12 UNF	890	670	1210	905	1440	1080	1960	1470
1-1/4	7 UNC	1120	840	1520	1140	1820	1360	2460	1850
	12 UNF	1240	930	1680	1260	2010	1500	2730	2050
1-3/8	6 UNC	1470	1100	1990	1490	2380	1780	3230	2420
	12 UNF	1670	1250	2270	1700	2710	2040	3680	2760
1-1/2	6 UNC	1950	1460	2640	1980	3160	2370	4290	3210
	12 UNF	2190	1650	2970	2230	3560	2670	4820	3620



TORQUE SPECS: METRIC

⚠ WARNING The following Table lists torque values for standard hardware and are intended as a guide for average application involving typical stresses and machined surfaces. Values are based on

physical limitations of clean, plated and lubricated hardware. In all cases, when an individual torque value is specified, it should be followed instead of values given in this table.

⚠ CAUTION Replace original equipment with hardware of equal grade.

Table 4-4. Torque Specifications For Metric Fasteners

NOMINAL SIZE & PITCH	CLASS 8.8 [GRADE 5 EQUIVALENT]				CLASS 10.9 [GRADE 8 EQUIVALENT]			
	TORQUE FT. LBS.		TORQUE N•m		TORQUE FT. LBS.		TORQUE N•m	
	Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
M4 x 0.7	2.27	1.70	3.07	2.30	2.27	2.31	4.17	3.13
M5 x 0.8	4.58	3.43	6.20	4.65	6.22	4.67	8.43	6.33
M6 x 1	7.75	5.83	10.5	7.90	10.60	7.97	14.3	10.8
M8 x 1.25	18.89	14.17	25.6	19.2	18.95	19.26	34.8	26.1
M10 x 1.25	39.11	29.52	53.0	40.1	53.87	40.59	73.0	55.0
M12 x 1.75	64.94	48.71	88.0	66.0	88.56	66.42	120.0	90.0
M14 x 2	103.32	77.49	140.0	105.0	140.22	107.01	190.0	145.0
M16 x 2	162.36	121.77	220.0	165.0	221.40	166.05	300.0	225.0
M20 x 2.5	317.34	236.16	430.0	320.0	428.04	321.03	580.0	435.0
M24 x 3	516.12	409.59	740.0	555.0	754.38	557.19	1010.0	755.0
M27 x 3	797.04	597.78	1080.0	810.0	1084.86	811.80	1470.0	1100.0
M30 x 3.5	1084.86	811.80	1470.0	1100.0	1476.00	1107.00	2000.0	1500.0



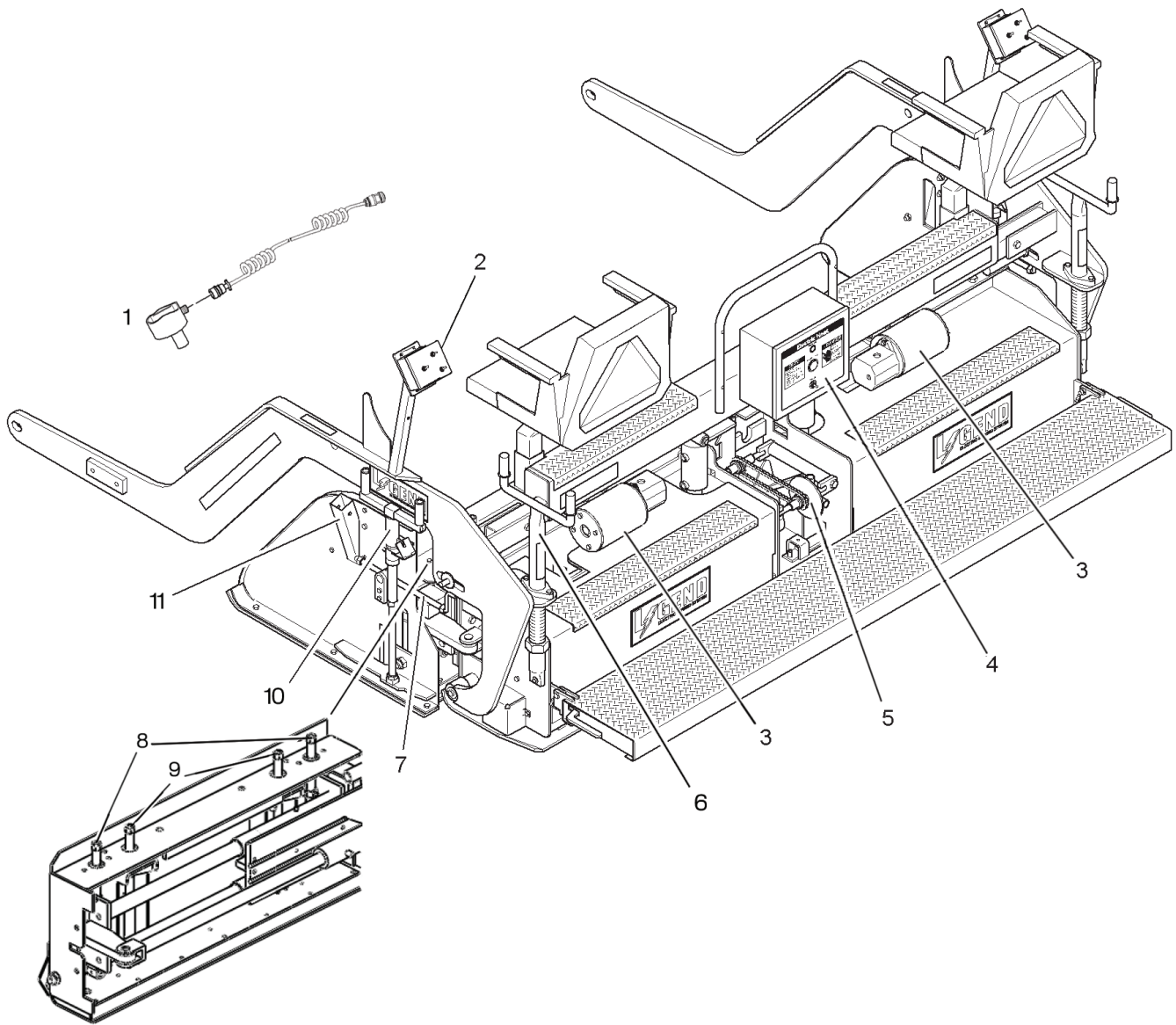
Section 5

COMPONENT LOCATION

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8515 OPERATION CONTROLS



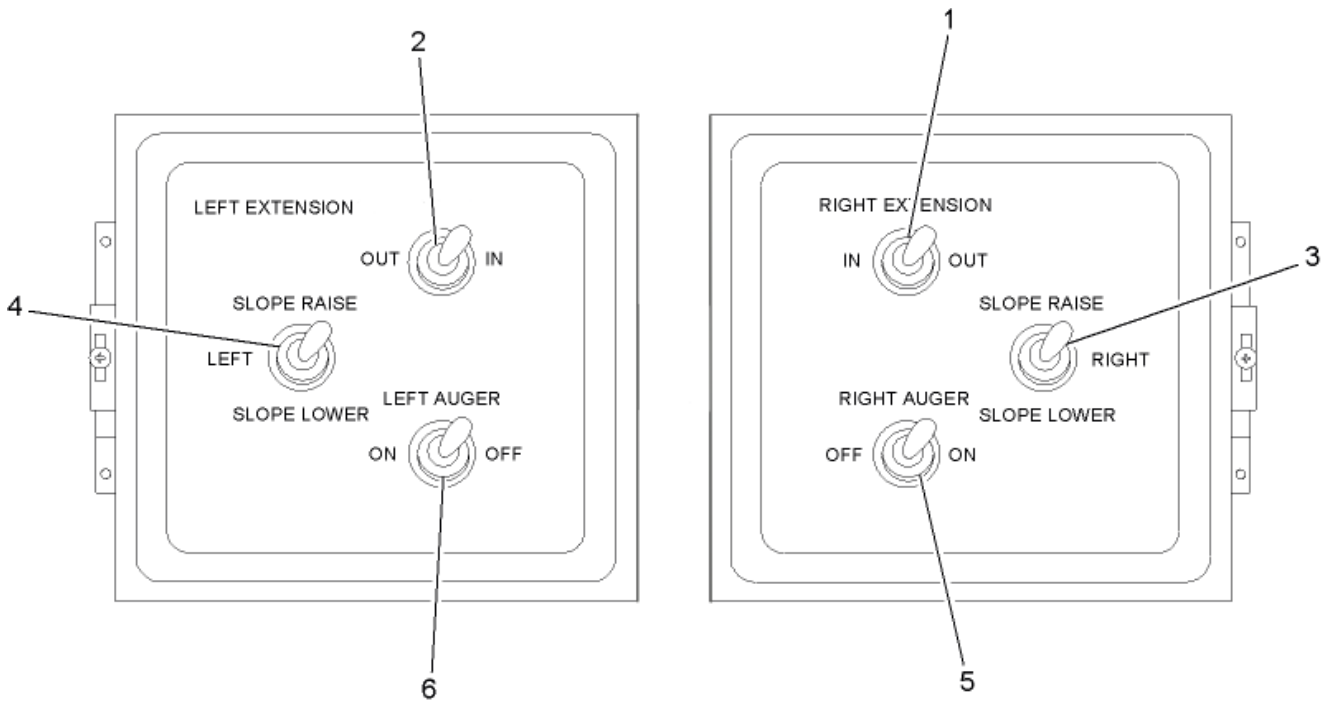
8515 Screed Operation Controls

Figure 5-1

Table 5-1. 8515 Operation Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Sonic Auger Sensor	Connected to Sonic Auger Adjustment. For reference only.
2	Screed Operator Control Panel	Contains controls for screed operation (Figure 5-2).
3	Screed Vibrator	Provides vibration to screed frame for better mat compaction.
4	Heat Control Box	Has a power switch (Figure 6-1, 1), a START HEAT button (Figure 6-1, 2), and a heat cycle indicator light (Figure 6-1, 3). Houses element breakers.
5	Crown & Valley Adjuster	Adjusts for positive crown or negative valley in wear plate.
6	Flight Screw	This screw controls the depth of the asphalt.
7	Tilt Screw	Used to adjust the tilt on End Gate.
8	Adjustment Screw	Adjusts the front of the extension to provide the best mat texture. Up or down and can level extension wear plate at wide widths.
9	Adjustment Screw	Adjusts the back end of the front of the extension. Tilt Rougher/Smoother.
10	Depth Screw	This control sets the depth of the End Gate.
11	Sonic Auger Sensor Mount	Holds the Sonic Auger Sensor in proper position to maintain the proper height of augered material.

8515 SCREED OPERATOR CONTROL BOXES



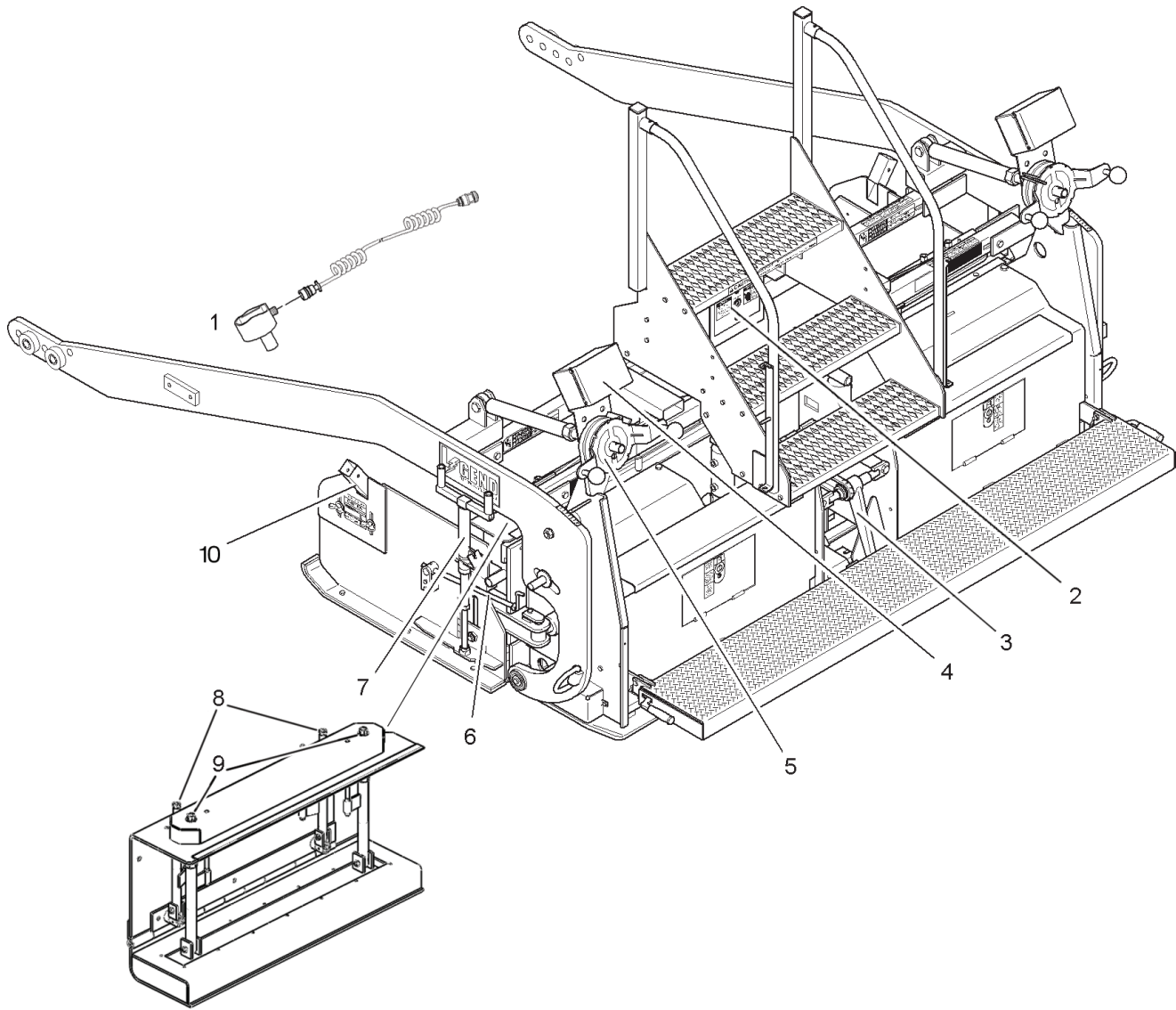
8515 Left and Right Screed Operator Control Boxes

Figure 5-2

Table 5-2. 8515 Left and Right Screed Operator Control Boxes

ITEM NO.	CONTROL NAME	FUNCTION
1	Right Extension IN/OUT	IN position moves extension in. OUT position moves extension out. Center position stops movement.
2	Left Extension/Auger Raise Lower IN/OUT	IN position moves extension in. OUT position moves extension out. Center position stops movement.
3	Right Slope Raise and Lower	UP position raises slope. DOWN position lowers slope. Center position stops movement. NOTE: Optional.
4	Left Slope Raise and Lower	UP position raises slope. DOWN position lowers slope. Center position stops movement. NOTE: Optional.
5	Right Auger OFF/ON	Turns the right auger ON or OFF. Leave ON.
6	Left Auger OFF/ON	Turns the left auger ON or OFF. Leave ON.

8816 OPERATION CONTROLS



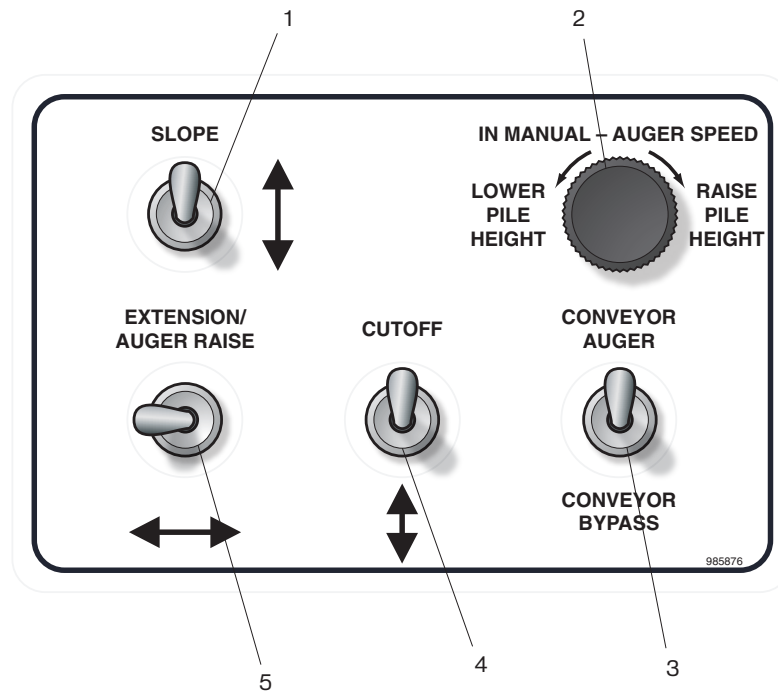
8816 Screed Operation Controls

Figure 5-3

Table 5-3. 8816 Operation Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Sonic Auger Sensor	Connected to Sonic Auger Adjustment. For reference only.
2	Heat Control Box	Has a power switch (Figure 6-1, 1), a START HEAT button (Figure 6-1, 2), and a heat cycle indicator light (Figure 6-1, 3). Houses element breakers.
3	Crown and Valley Adjuster	Adjusts for positive crown or negative valley in wear plate.
4	Screed Operator Control Box Left	Contains toggle switches for LEFT EXTENSION IN/OUT, SLOPE RAISE/LOWER, LEFT AUGER ON/OFF, and AUGER MATERIAL HEIGHT MIN/MAX, MANUAL AUGER SPEED. NOTE: Auger toggle should be left in ON position at all times. Auger and screed extensions can be operated by a person standing on Lower walkway. Right Auger box is identical and located on right side of the machine.
4	Speed and Pile Height Potentiometer	Adjusts thickness of material in End Gate by controlling and changing the automatic speed of the Augers.
5	Flight Screw	This screw controls the depth of the asphalt.
6	Tilt Screw	Used to adjust the tilt on End Gate.
7	Depth Screw	This control sets the depth of the End Gate.
8	Adjustment Screw	Adjusts the front of the extension to provide the best mat. Up or down and can level extension at wide widths.
9	Adjustment Screw	Adjusts the back end of the extension wear plate. Tilt Rougher/Smother.
10	Sonic Auger Sensor Bracket	Holds the Sonic Auger Sensor in proper position to maintain the proper height of augered material. Connected to Sonic Auger Adjustment.

8816 SCREED OPERATOR CONTROL BOXES



8816 Screed Operator Control Box

Figure 5-4

Table 5-4. 8816 Screed Operator Control Box

ITEM NO.	CONTROL NAME	FUNCTION
1	Slope Raise and Lower	UP position raises slope. DOWN position lowers slope. Center position stops movement.
2	Auger Material Height - Manual Auger Speed	When paver control panel toggle (not shown in this manual) is set to AUTOMATIC, this rotary control controls the amount of material in extension. In MANUAL position, controls the speed of augers. NOTE: The augers will not run at "0" position.
3	Conveyor Auger/ Bypass	In UP position the Augers and Conveyor both operate in sync. In DOWN position the Augers continue to run and the Conveyor stops.
4	Cutoff UP/DOWN	UP position raises (opens) and Lowers Cutoff on paver.
5	Extension IN/OUT	IN position moves extension in. OUT position moves extension out. Center position stops movement. NOTE: Toggle control is determined by switch on paver (not shown in this manual).
5	Auger RAISE/LOWER	Moves Auger UP or DOWN. NOTE: Toggle control is determined by manual valve on paver (not shown in this manual).

NOTES



Section 6 OPERATION

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GENERAL INFORMATION

Before operating the LeeBoy Model Legend Electric Screed System, read the following safety information and review *SAFETY* on page 2-1.

⚠ DANGER The safety messages that follow have DANGER level hazards.

Operation Hazards

- Never allow anyone who is not properly trained to operate the LeeBoy Model Legend Electric Screed System. Only authorized personnel who are properly trained can operate the screed.
- Do not operate a screed that requires repairs or scheduled maintenance. Put an information tag on the instrument panel that says "DO NOT OPERATE." Remove the key from the ignition switch. Repair all damage at once and perform routine maintenance. Minor damage can result in major system failure.

⚠ WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or source of ignition. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTE: When using spray down, consider the environment and do not allow cleaning solvent to run onto the ground.

⚠ CAUTION Verify there are no people, obstacles or other equipment near the LeeBoy Model Legend Electric Screed System before starting the engine.

NOTICE The safety messages that follow have NOTICE level hazards.

- WORK slowly in tight areas.
- AVOID steep hills if possible. Always look before changing the direction of travel.
- ALWAYS park the paver on solid, level ground in low range. If this is not possible, always park the paver at a right angle to the slope. Lower screed when parked.
- USE proper flags, barriers and warning devices, especially when parking in areas of traffic.

OPERATION

Pre-Start Inspection

1. Inspect screed. Have any malfunctioning, broken or missing parts corrected or replaced before using. Hydraulic hoses should be checked daily for wear and leaks. Replace if damaged.
2. Check for frayed or worn electrical wires and loose or corroded connections. Replace if damaged.
3. Check steps and supports for damage. Repair as necessary.
4. Make sure operator's area is free of debris.
5. Check that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the machine.
6. Read and follow all instruction and safety labels.
7. Wear OSHA required safety equipment when running the screed.

Spray Down

Always spray down the LeeBoy Model Legend Electric Screed System before using.

The spray down on your paver is used to spray cleaning solvent on any part of the screed that comes in contact with the asphalt. Buildup of asphalt will cause damage to components. Spray all areas of the screed that have direct contact with asphalt.

⚠ WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or source of ignition. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTE: When using spray down, consider the environment and do not allow cleaning solvent to run onto the ground.

1. Unroll the amount of hose needed and set SPRAY DOWN switch to SPRAY DOWN (up) position. Squeeze the wand handle and spray. Release wand handle when done spraying.
2. After spraying, set the SPRAY DOWN switch to the OFF (down) position and wind the hose.

Heating Controls

LeeBoy Model Legend Electric Screed System is very easy to operate, and requires very little maintenance. The system consists of a hydraulically driven generator mounted in the paver, which feeds power to a distribution/control box mounted on the screed. This box is mounted near the middle of the screed and is easily accessible to the screed operator when a heating cycle is required.

The control box is where you will select the heating function before you begin to pave (**Figure 6-1**).

The control box has a power switch (**Figure 6-1, 1**), a START HEAT button (**Figure 6-1, 2**), and a heat cycle indicator light (**Figure 6-1, 3**). Under normal operation, the operator will flip the power switch up to the POWER position, and depress the START HEAT button. During normal usage, there are no other controls for operating the heat system.

To operate the screed heating system:

1. Start the paver and bring the engine to normal operating temperature as outlined in the paver manual.
2. Set the throttle on the paver to full engine rpm.

NOTE: Throttle positions of one half to less than full will still produce screed heat, but at a reduced rate and temperature. Do not run machine at less than half throttle while using electric screed heat.

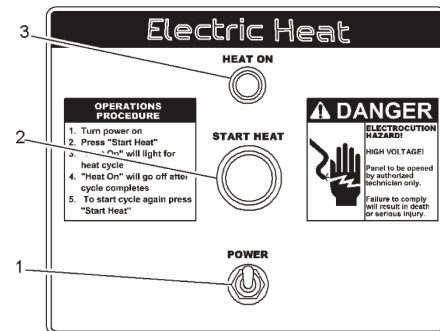
3. Flip the power switch (**Figure 6-1, 1**) to the ON position.
4. Press the START HEAT (**Figure 6-1, 2**) button.
5. The heating cycle will begin, and the HEAT ON (**Figure 6-1, 3**) light will illuminate.

NOTE: The HEAT ON light (**Figure 6-1, 3**) will stay on as long as the elements are heating the screed plates. Once the heating cycle is complete, the HEAT ON light will go out.

6. If the heat cycle has completed and the screed plates still require a higher temperature, restart the system by pressing the START HEAT (**Figure 6-1, 2**) button again. The system will run for the set time once more.

NOTE: If the heat system is running, and the operator presses the START HEAT (**Figure 6-1, 2**) button during a heating cycle, the heat will continue to operate normally, and the time cycle will re-set to beginning of the cycle. This will not hurt the

system, and may be useful on cooler days to make the screed heat system run longer than normal without stopping.



Electric Heat Control Box

Figure 6-1

1 - Power Switch

2 - Start Heat Button

3 - Heat On Indicator Light

Once the heating function has been enabled, the distribution/control box will apply electrical power to the heating elements and the heating cycle will begin. The heating cycle is timed to optimize the heat generated at the screed plates.

NOTE: The factory time setting for the heating cycle is 30 minutes. This will be sufficient in most circumstances to generate enough heat to begin the paving process without screed heat problems.

NOTE: The temperature that the screed plates reach will depend in part on the outside ambient temperature.

NOTICE

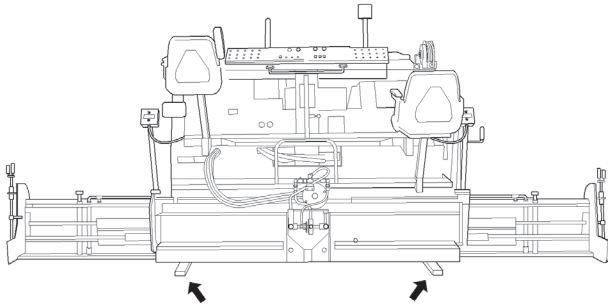
Do not run heating elements and auxiliary operations, such as augers, at the same time for extended periods over 1/2 hour. Generator and heating element damage will occur.

To help the screed heating system operate most efficiently:

- Ensure that engine RPM is at full throttle.
- Raise screed plate approximately 1 to 2 inches off the ground when just heating screed at start of project.
- Do not raise screed fully, allowing more wind under the screed plate while heating.
- Set the screed directly on a fresh mat of hot asphalt while running the heating system, allowing the heat of the asphalt to help heat the screed plate.

Setting Screed To Pave

1. Move to the starting position.
2. Extend the screed to the desired width.
3. To set depth, place screed on starter blocks (Figure 6-2).



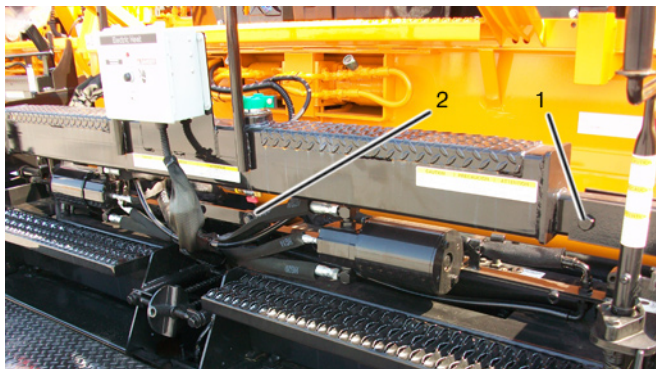
Starter Blocks

Figure 6-2

4. Level the screed with the flight screws (Figure 5-2, 4) until neutral position is felt.

NOTE: Neutral position is when the pressure on the flight screw is the same when screwing either clockwise or counterclockwise.

5. Turn the flight screw about one complete turn clockwise.
6. To obtain the crown or valley desired, push on the CROWN UP or DOWN switch. The screed plate is a one-piece unit that is flexed to provide the required crown setting.
7. Loosen lock down bolts (Figure 6-3, 1, 2) in slotted bars before adjusting crown and valley mechanism.



Lock Down Bolts

Figure 6-3

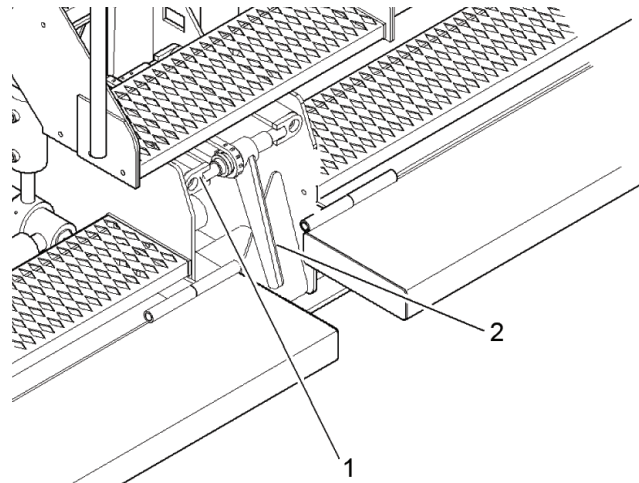
1 - Cross Tube Bolt

2 - Center Link Bolt

NOTE: 8816 screed does not have center link bolt but does have two cross tie bolts (Figure 6-3, 1, 2).

8. Use the gauge (Figure 6-3) located at the center of the screed above the standing platform. If the needle is above the zero, you will have positive crown. If the needle is below the zero, you will have negative crown.
9. To get exact crown or valley, measure the distance between a flat level surface to the center bottom portion of screed. Make adjustments with crown and valley control.

NOTE: Positive crown is when the middle of the mat is raised to permit water to drain to each side. Negative crown is the lowering of the center of the screed plate. Negative crown might be used in an alley where drainage down the center of the alley is necessary (Figure 6-5).



Crown Adjustment Indicator

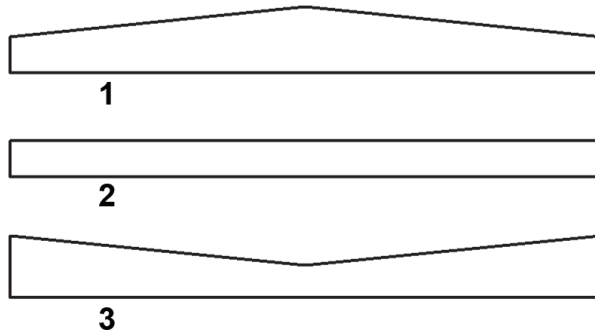
Figure 6-4

1 - Gauge

2 - Adjuster

NOTE: Crown may be placed in the leading edge and/or the trailing edge of the screed plate. Crown in the leading edge aids material flow under the screed plate only. Trailing edge crown puts a crown in the mat. As an example: trailing edge crown is 0, leading edge crown is 1/8 in. With this setup, there will not be any crown placed in the mat laid by the LeeBoy Model Paver; however, material flow under the screed plate will be improved.

NOTE: Trailing edge crown is set at 0 when shipped from the factory. The chain connecting the leading and trailing edge crown control assures that the relationship of the edges remains constant as the trailing edge is changed to meet job conditions.



Crown Settings

Figure 6-5

- 1 - Positive (+)
- 2 - Zero (0)
- 3 - Negative (-)

Setting Screed End Gates

1. On the first pass, turn the depth screw (**Figure 6-6, 1**) to lower the end gate until it is about 0.25 in. (6.35 mm) below the screed.

NOTE: Most operators run end gates within 0.25 in. (6.35 mm) of flush.

2. Turn the tilt screw on the end gate so the front of the end gate tilts down slightly when the screed is lifted. This will allow the end gate to set itself to grade.

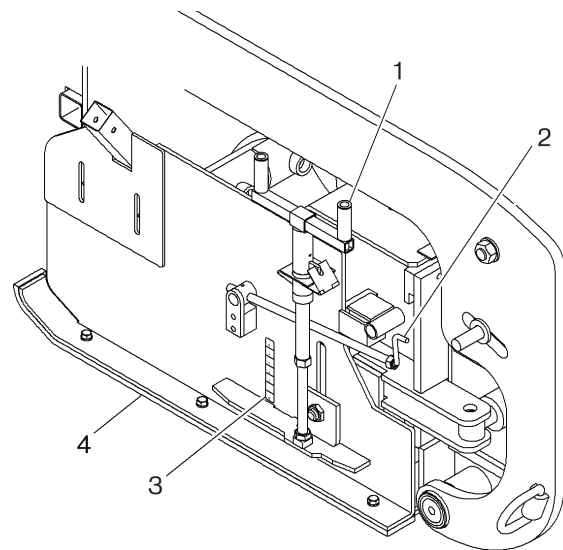
NOTE: When paving, never let the end gate carry the weight of the screed. This will cause screed compaction to vary.

3. During operation, if the end gate starts to dig in at front, adjust the tilt screw so the end gate tilts back.
4. When making a joint, the end gate must be set to where it fits flush with bottom of screed.

NOTE: Keep runners clean. When making a joint, spray cleaning solvent on runners (**Figure 6-6, 4**).

WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

5. On the first pass, leave about 6 - 8 in. (15 - 20 cm) of unrolled asphalt where the joint is being made.
6. In laying a joint, if the joint looks too high or too low, adjust the flight screw on the screed about one (1) turn at a time and allow 4 - 5 ft. (1.2 - 1.4 m) of travel to correct itself. (Too much adjustment up or down may cause a roller coaster effect.)
7. If making a cold joint, set end gate down about 1/4 in. (6.35 mm); this will give a nice, even edge.



End Gates

Figure 6-6

- 1 - Depth Screw
- 2 - Tilt Screw
- 3 - Depth Gauge
- 4 - Runner

Setting Screed Extensions

NOTE: Used when paving over 8 ft. (2.4 m).

The screed extensions should be heated with initial 30 minute heating cycle before making adjustments. Use the wrench provided to make adjustments. If correct adjustment is made, the pressure on the rear edge of extended screed is the same as on the rear edge of main screed. The result of making this adjustment will be a smooth mat the length of the screed.

NOTE: Make adjustments only while paving.

1. Heat the screed extension before making adjustment to extended width.
2. Adjust tilt on the rear edge of the extension by turning adjustment (**Figure 6-7, 1, 2**) counterclockwise. This is done to give the same amount of compaction and slickness on the extension and main screed.
3. If drag occurs in center of the screed, then too much pressure is on the screed extension and the extension is carrying all the weight. Correct this by turning the adjustment clockwise until both the screed and the screed extension produce the same mat texture.

Mat Texture Adjustment

The screed should be hot before making any adjustments. The screed can be adjusted for a smoother or coarser mat texture by using the mat texture adjusting screws (**Figure 6-7**). Make sure the bottom of the screed is sprayed down before making any texture adjustments (see **Spray Down**).

⚠ WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTE: When using spray down, consider the environment and do not allow cleaning solvent to run onto the ground.

For 8515 screed extension single adjustment:

1. Spray down the screed and then heat up the screed.
2. There is a single adjuster near the middle of the extension (**Figure 6-7, 1**).



8515 Mat Texture Single Adjusters

Figure 6-7

1 - Extension Angle of Attack (AOA) Adjuster

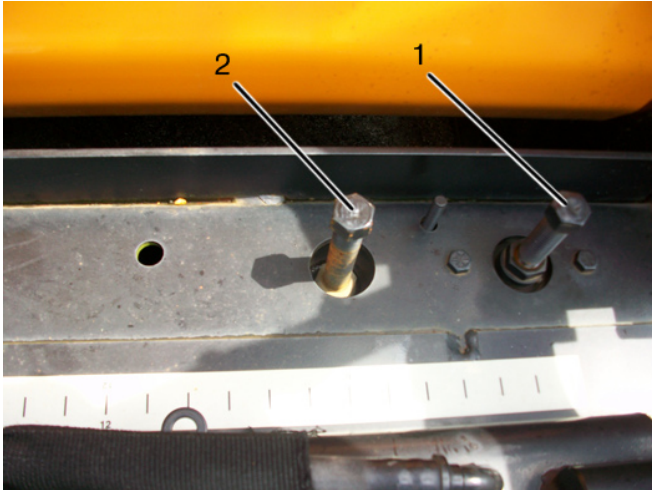
3. Turning the AOA adjuster (**Figure 6-7, 1**) clockwise (CW) will increase the pressure on the back of the screed. Turning the adjuster counterclockwise (CCW) will decrease the pressure on the back of the screed.

NOTE: Increasing the pressure on the back of the extension will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish. Putting too much pressure on the back of the extension will take the weight off of the screed wearplate and will cause poor material compacting, resulting in a poor finish in the middle of the main screed.

For 8515 screed extension double adjustment:

NOTE: Double Adjunster extensions are optional.

1. Spray down the screed and then heat up the screed.
2. There are two adjusters at each end of the extension (**Figure 6-8, 1, 2**). The adjuster farthest from the extension center is the vertical adjustment.



8515 Mat Texture Double Adjusters

Figure 6-8

1 - Vertical Adjuster

2 - Extension Angle of Attack (AOA) Adjuster

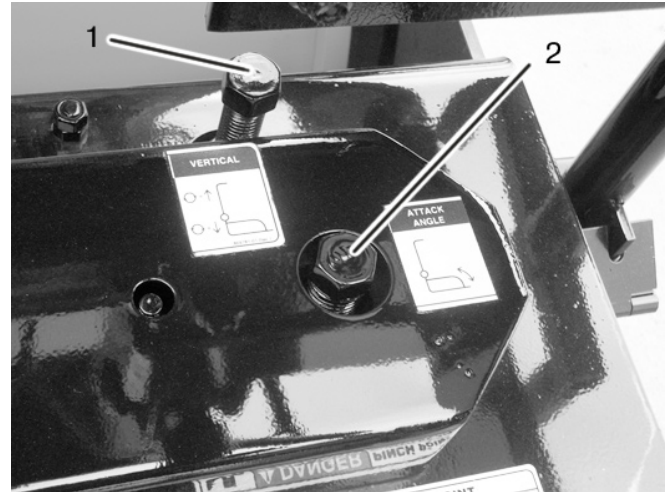
3. Turning the adjusters (**Figure 6-8, 2**) clockwise will increase the pressure on the back of the extension. Turning the adjusters counterclockwise will decrease the pressure on the back of the extension.

NOTE: Increasing the pressure on the back of the extension will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish. Putting too much pressure on the back of the extension will take the weight off of the screed wearplate and will cause poor material compacting, resulting in a poor finish in the middle of the main screed.

NOTE: Vertical Adjuster is preset by dealer and should not need adjustment.

For 8816 screed extension adjustment:

1. Spray down the screed and then heat up the screed.
2. There are two adjusters at the outside end of the extension (**Figure 6-9, 1, 2**).



8816 Mat Texture Adjusters

Figure 6-9

1 - Vertical Adjuster

2 - Extension Angle of Attack (AOA) Adjuster

3. Turning the AOA adjusters (**Figure 6-9, 2**) clockwise will increase the pressure on the back of the screed. Turning the adjusters counterclockwise will decrease the pressure on the back of the screed.

NOTE: Increasing the pressure on the back of the extension will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish. Putting too much pressure on the back of the extension will take the weight off of the screed wearplate and will cause poor material compacting, resulting in a poor finish in the middle of the main screed.

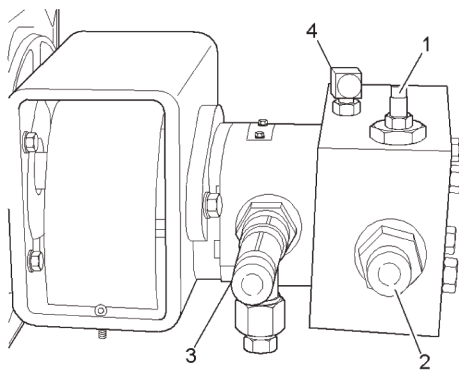
NOTE: Vertical Adjuster is preset by dealer and should not need adjustment.

Generator Overview

The fine tune speed adjustment (**Figure 6-7, 1**) is on the top of the manifold. The two ports facing you in the picture are pressure (**Figure 6-10, 2**) and the discharge port (**Figure 6-10, 3**). The pressure line is on the right, going into the manifold, and the discharge line is on the left, coming out of the motor. The fitting (**Figure 6-10, 4**) coming out of the top of the manifold is the motor case drain, and is tied directly to the lower hydraulic belly tank. The generator is provided oil for operation by a gear pump on the paver engine.

NOTICE Do not run heating elements and auxiliary operations, such as augers, at the same time for extended periods over 1/2 hour. Generator and heating element damage will occur.

The faster the engine is run, the faster the generator will run also.



Generator Detail

Figure 6-10

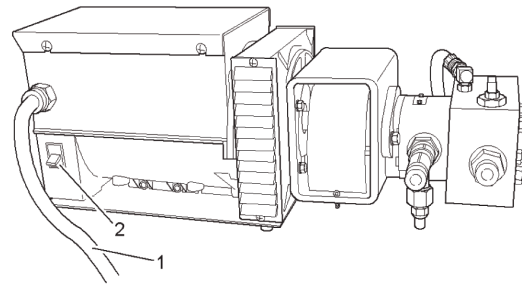
- 1 - Fine Speed Adjust**
- 2 - Pressure Port**
- 3 - Discharge Port**
- 4 - Motor Case Drain**

The entire generator is shown here (**Figure 6-11**). Note the electrical cord (**Figure 6-11, 1**) coming out of the case of the generator at the far left. This is the cable that runs to the rear of your paver that supplies power to the screed. This cable should be inspected regularly to ensure that no damage has occurred to the cable during normal operation.

NOTE: If damage is seen in the power cable, the unit should not be operated until a new cable is installed.

Figure 6-11 also shows the location of the main output breaker (**Figure 6-11, 2**) in your generator. All output

power from the generator is lost when this breaker is in the “tripped” or “off” position.

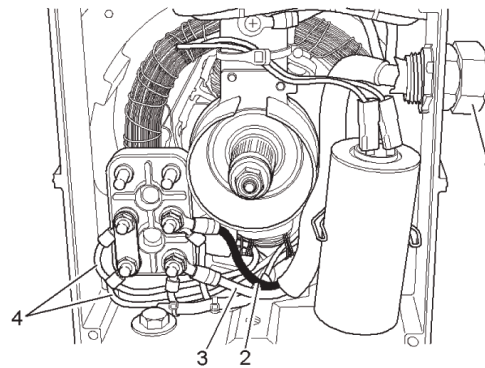


Generator

Figure 6-11

- 1 - Electrical Cord**
- 2 - Main Output Breaker**

NOTE: If, when your screed heat system is turned on, you have no heat on any screed, this breaker should be checked. If, after resetting the breaker, it will not stay in the ON position, a screed wiring fault should be assumed. See **MAINTENANCE on page 7-1**.



Generator Rear View

Figure 6-12

- 1 - Power Cable**
- 2 - L1 (Black Wire)**
- 3 - L2 (White Wire)**
- 4 - Generator Winding Wire**

The rear of the generator is shown here (**Figure 6-12**). You can see the power cable (**Figure 6-12, 1**) coming into the generator case at the top right. Just below the generator case is the voltage capacitor. The capacitor controls the output voltage of the generator, and may need to be changed if no voltage is generated by the set.

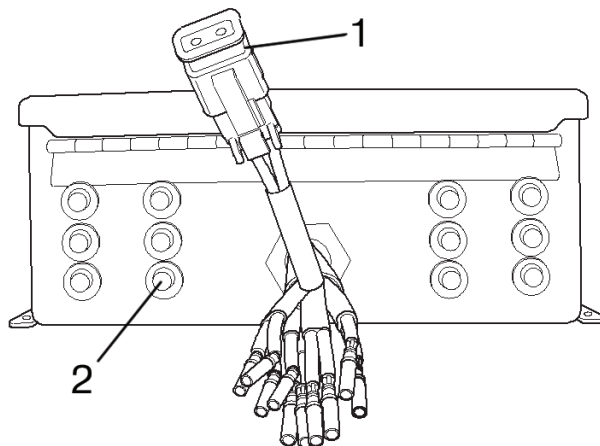
See **MAINTENANCE on page 7-6** for generator voltage testing.

The main output of the generator is located in the lower left of the picture. You will see two main wires attached to the generator, a black wire (**Figure 6-12, 2**), and a white wire (**Figure 6-12, 3**). The other two wires (**Figure 6-12, 4**) are generator winding wires, and should not need to be serviced under normal circumstances.

Element Connections

The bottom of the control box contains the system element breakers, and the 6 main outputs for the screed heating elements (**Figure 6-13**). Since the heating elements are powered by 220VAC to 240VAC, each element has two breakers (**Figure 6-13, 2**). There is one breaker for each leg of each element. Also shown is one of the two pin plugs that supplies power to the screed elements.

Any element lead can be plugged into any supply plug (**Figure 6-13, 1**) under the heating control/distribution box. All six plugs are equally rated.



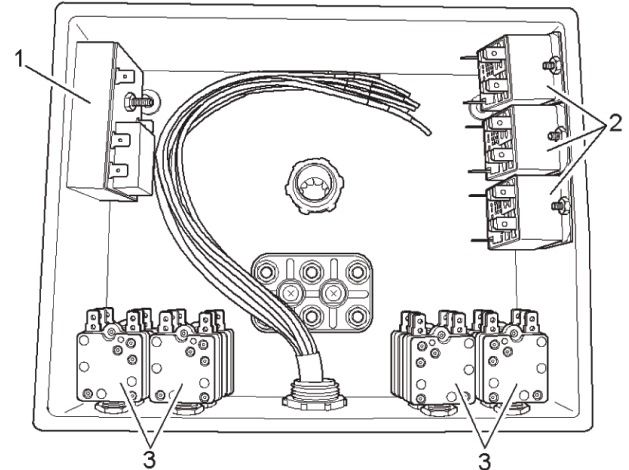
Electric Heat Control Box Bottom and Breakers

Figure 6-13

1 - Element Lead

2 - Breaker

NOTE: All control boxes are manufactured the same to fit all screed and paver combinations. If your screed does not have enough element wires to fill all the plugs on the bottom of the control box, it may be normal. Any plugs that are not filled should be capped with appropriate plug terminator.



Electric Heat Control Box Before Wiring Completed

Figure 6-14

1 - System Timer

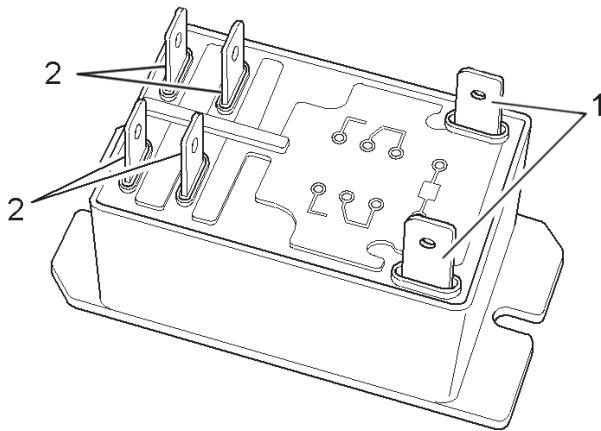
2 - Element Relays

3 - Element Breakers

The control box consists of three major types of components. The system timer (**Figure 6-14, 1**) is located in the upper left hand corner of the box. The element relays (**Figure 6-14, 2**) are located in the upper right hand corner of the box, and the element breakers (**Figure 6-14, 3**) are located in the lower surface of the box. The other block in the center is used as a wire junction block only. Refer to the wiring schematic at the end of this manual, and you will note how the following connections are made.

Each element output from the bottom of the box consists of two wires. One wire will connect to the L1 circuit, and the other wire will connect to the L2 circuit. The L1 circuit is the left bank of element breakers. Each breaker has two terminals. One terminal is connected to the main input, and the other terminal is connected directly to an element output wire. The L2 circuit is the right bank of element breakers. This bank is wired slightly different, in that each leg not only goes from the main L2 power lead through a breaker, but each leg then goes through one of the six contacts on the element relays. It is these relays that “make” or “break” the circuit to each element to start or stop the heating cycles.

An element relay is shown here (**Figure 6-15**). There are three relays in the control box. Each relay has two separate sets of contacts operated by one coil.



Element Relay

Figure 6-15

1 - Coil Terminals

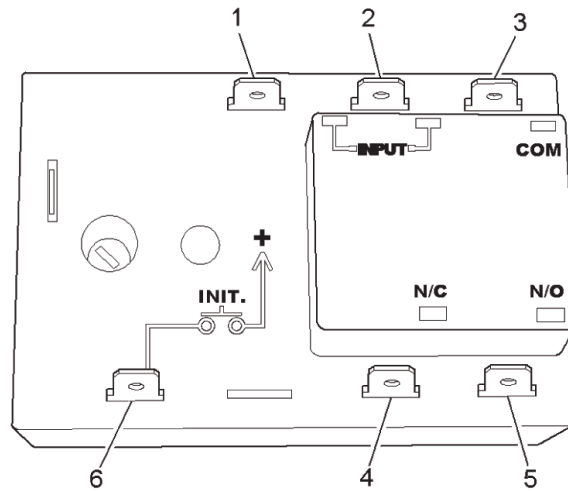
2 - Contact Terminals

The coil contacts on the relay shown are at the top and bottom of the right hand side of the relay (**Figure 6-15, 1**). One set of contacts are the two terminals at the top left of the relay, and the other set of contacts (**Figure 6-15, 2**) are at the bottom left of the relay shown. When the coil is energized, both sets of contacts will close. All the relays used are “normally open”. See **MAINTENANCE on page 7-1** for testing element relays.

A heat system timer is shown (**Figure 6-16**). There are six terminals on the timer. The top two left terminals are the main 12vdc input terminals for the timer. The ground (**Figure 6-16, 1**) is on the left and the power (**Figure 6-16, 2**) is on the right.

The top right terminal is the common terminal (**Figure 6-16, 3**) to the internal timer relay that controls the heat system. When power is applied to the input terminal, it is also jumped to the common (or COM) terminal on the timer. The lower right two terminals on the timer are the outputs of the internal timer relay.

The left of these two is the normally closed terminal (**Figure 6-16, 4**), which is not used in this system, and the lower right terminal (**Figure 6-16, 5**) is the normally open terminal. The normally open terminal is used as the output terminal to “turn” the heating system on. The lower left hand terminal (**Figure 6-16, 6**) is the “initiate” contact. When the HEAT ON button is depressed, 12vdc is momentarily applied to this terminal to start the timer cycle. During the timer cycle, power will not be applied to this terminal unless the HEAT ON button is depressed again. Keep in mind, if this happens, the timer will re-start.



Heat System Timer Terminals

Figure 6-16

1 - Ground Input

2 - Power Input

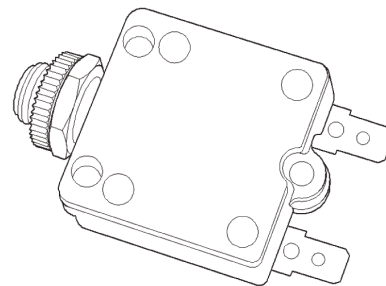
3 - Common (COM)

4 - Terminal Output

5 - Terminal Output

6 - Initiate Terminal

The breakers are wired into each leg of each element. If an element has a fault, either in the wiring, or in the element itself, the breaker will trip and power will no longer be applied to that leg of the element. The breakers can be manually reset by depressing the trip button back in when they are extended. If by depressing the breaker re-set, the breaker will not reset, there may be a need to replace the breaker, or diagnose the element, or element wiring, it is connected to.

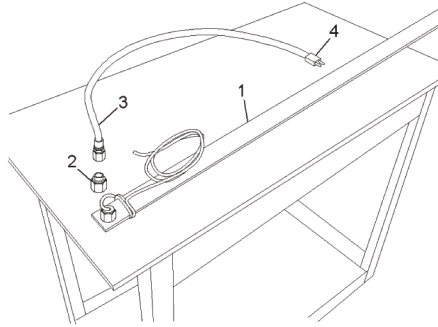


Element Breaker

Figure 6-17

Heating Elements

Next in your system are the screed heating elements themselves. Each element is sized to fit properly in your screed, and provide sufficient power to heat your screed plate to a temperature that mix will not drag or stick to the lower surface of the screed plate.

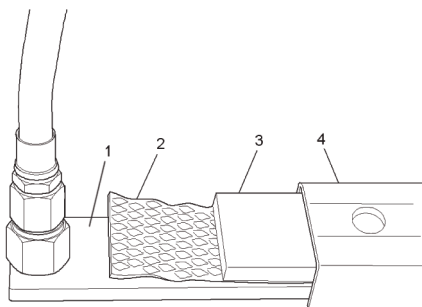


Heating Element Assembly

Figure 6-18

- 1 - Element
- 2 - Wire Protector Adapter
- 3 - Wire Protector
- 4 - Two Pin Plug

An element assembly consists of four main components. The element (**Figure 6-18, 1**), the wire protector adapter (**Figure 6-18, 2**), the wire protector (**Figure 6-18, 3**), and the two pin wire plug (**Figure 6-18, 4**) at the end of the element protector (**Figure 6-18**).

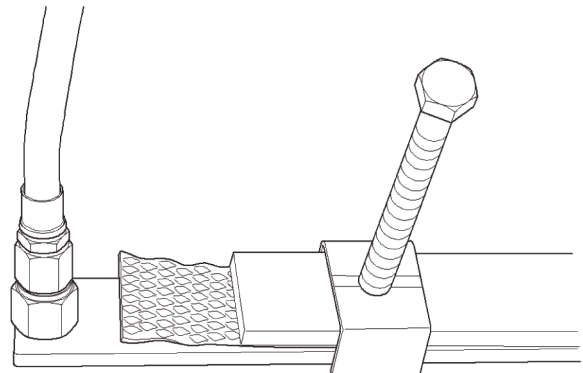


Heating Element Assembly Detail

Figure 6-19

- 1 - Element
- 2 - Insulation
- 3 - Support Bar
- 4 - Shield

Each element (**Figure 6-19, 1**) used has a thin strip of insulation (**Figure 6-19, 2**) over it to keep the heat of the element from escaping. A support bar (**Figure 6-19, 3**) is then laid over the element, and a shield (**Figure 6-19, 4**) protects the element assembly (**Figure 6-19**). Each element is clamped down to the screed plate so as to provide a positive and efficient connection between the element and the screed plate.



Typical Heating Element Clamp

Figure 6-20

A typical element clamp assembly is shown (**Figure 6-20**). The clamp setup may vary slightly depending on your screed size, or whether you are working on the extension or main screed plates. The principle is the same with all of the clamps.

Enough pressure should be applied to the element assembly to sufficiently hold the element tight against the screed plate surface. All clamp setups are lockable with a jam nut on the adjustment screw. After tightening the clamping stud, lock the clamp by tightening the stud jam nut. To remove an element, loosen all the clamping studs over the element, and then the element can be removed from the frame through the access provided at the outer end of the screed. The extension elements are accessed by removing the top cover from the extension screed plate.

PAVER OPERATION

Follow start-up procedures. Refer to ENGINE START-UP in your LeeBoy Model Paver manual.

1. Position paver at start of mat. Adjust screed in accordance with Screed Leveling Instructions.
2. When material starts to discharge from under screed, the SCREED LIFT RAISE/FLOAT switches on the dash should be set to the FLOAT position (One side only).
3. Open hopper wings into working position. When first starting to pave allow only a partial load of asphalt to enter the hopper.

⚠ CAUTION Never fold hopper wings fully in when hopper is full of asphalt.

4. Set the LEFT CONVEYOR and RIGHT CONVEYOR AUTOMATIC/MANUAL switches to the AUTOMATIC position and convey material back to screed. Run from one side only. Either the left operator's side or the right. AUGERS ARE NOT NEEDED WHEN PAVING A BASIC 8-FOOT PULL.
5. Open cut-off gates under auger and start paving. Move slowly at first so adjustments can be made to screed.

⚠ CAUTION Never backup with cut-off gates open. Cut-off gates are designed to break away from cylinders when hitting a manhole or other hard objects. This occurs going forward not in reverse.

6. To prevent excessive handwork, about 2 to 3 ft. (0.6 to 0.9 m) from end of pull, Set the LEFT CONVEYOR and RIGHT CONVEYOR AUTOMATIC/MANUAL switches to the OFF position and set LEFT CUTOFF AND RIGHT CUTOFF switches to the CLOSE position.
7. Return paver back to starting position to begin next pull. Position and set screed endgate on joint side back to 0 ft. or flush with bottom of main screed. Repeat process as done in first pull.
8. The paver can operate using one side only. However, material from opposite side cannot be augered to the working side. The auger center cover prevents this. It is possible to leave both cut-offs shut and open the end gates on screed. This method is generally used in doing potholes and patching.

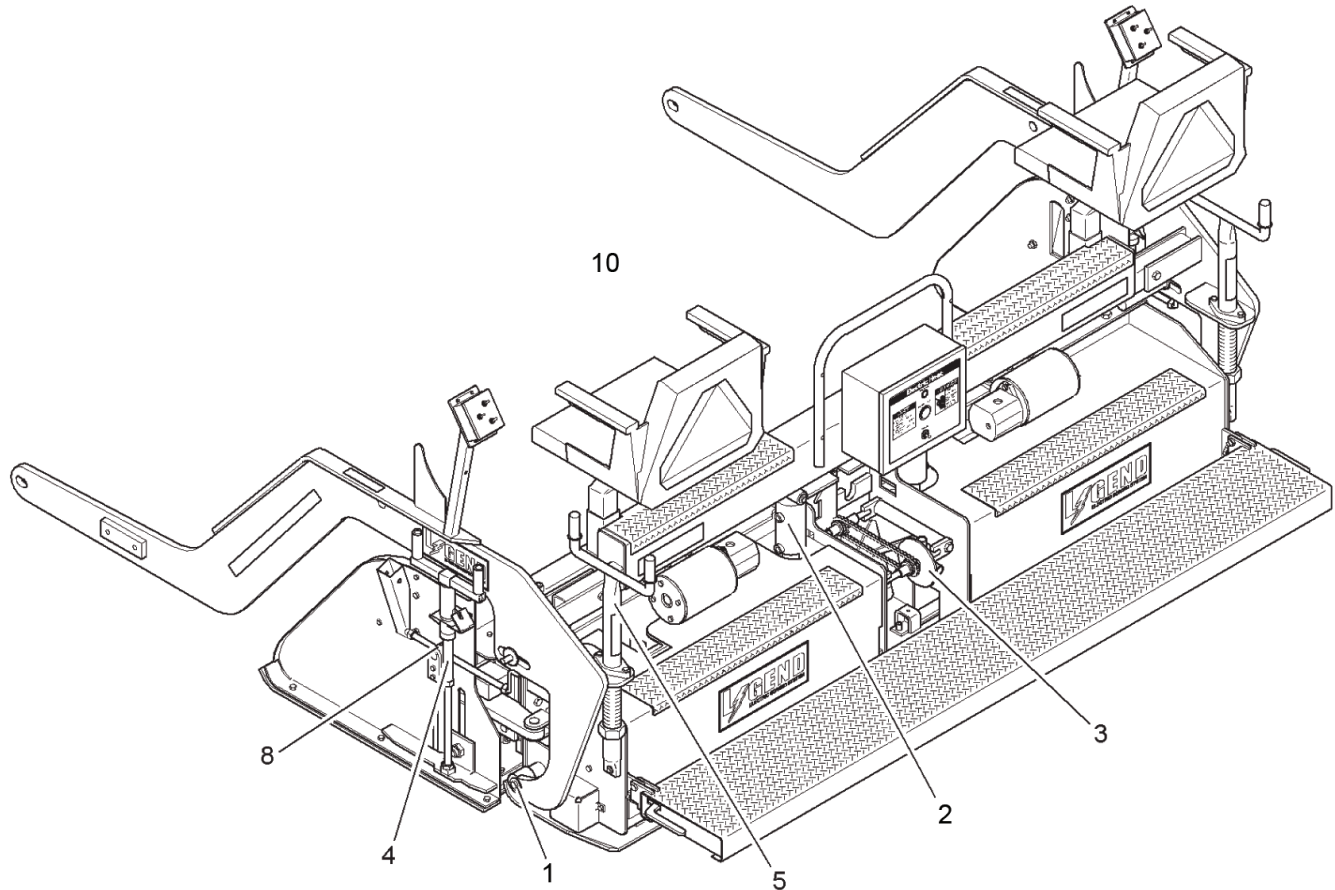


Section 7 MAINTENANCE

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SCREED LUBRICATION CHART

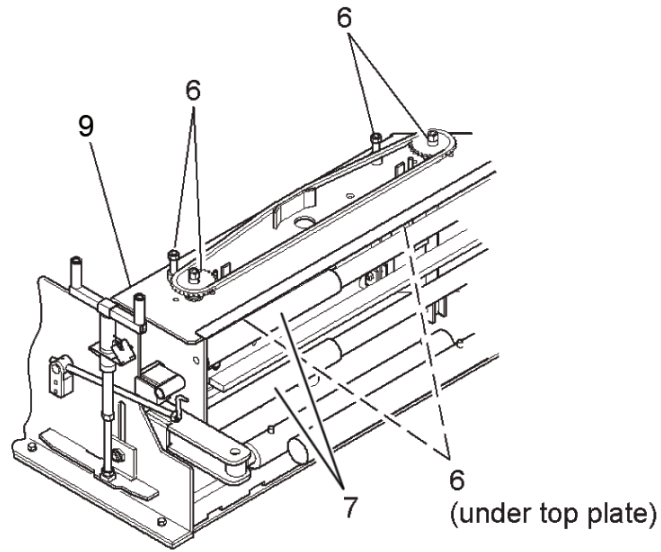


Lubrication Points - 8515

Figure 7-1a

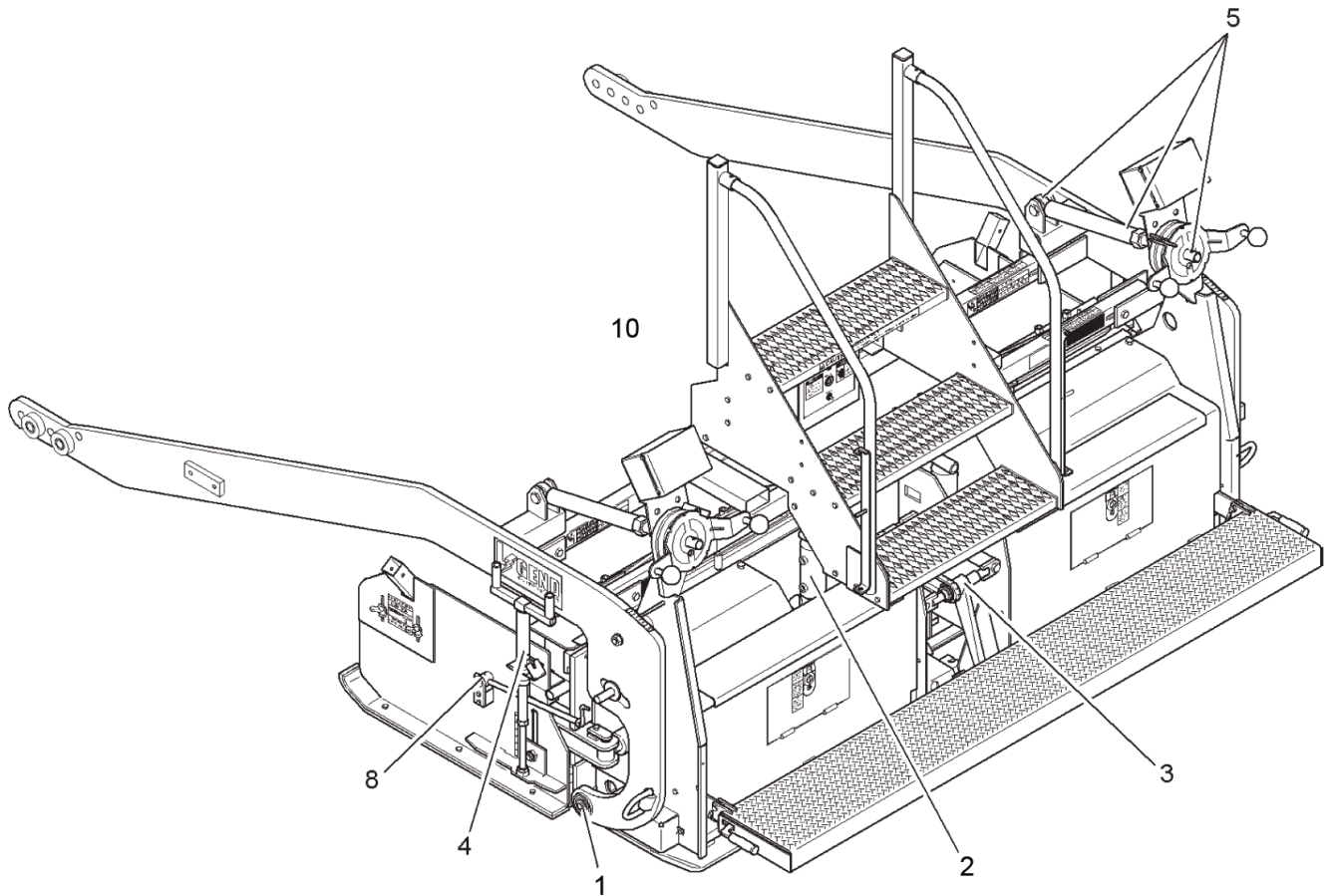
Table 7-1. Lubrication Points Schedule (see Figure 7-1a, 1b, 1c)

ITEM NO.	TYPE LUB	DESCRIPTION AND LOCATION	INTERVAL
Legend	A	Grease With Shell Avania EP Grease 2 Or Equivalent	Weekly
	B	Spray With An Approved Release Agent	Daily
1	A	Screed Pivot	Weekly
2	A	Slope Cylinder Pivot	Weekly
3	A	Screed Crown, On Chain And Turnbuckles	Weekly
4	A	Depth Screw (Grease First In Lock Position, Unlock And Turn 180° And Grease)	Weekly
5	A	Main Flight Screws Ball Socket & Nut	Weekly
6	A	All Screws On Extension And Bearing	Weekly
7	A	Tubes At Chrome Rod Extensions (8816 only)	Weekly
8	A	Tilt Screws	Weekly
9	B	Screed Extensions, Left And Right (Clean Surface)	Daily
10	B	Spray Any Part Of Machine That Contacts Asphalt	Daily



Lubrication Points - Typical Screed Extension

Figure 7-1b



Lubrication Points - 8816

Figure 7-1c

Before performing any maintenance procedures on the LeeBoy Model Legend Electric Screed, read the following safety information and review SAFETY on page 2-1.

⚠ WARNING Tool Hazard! ALWAYS use tools appropriate for the task at hand and use the correct size tool for loosening or tightening screed parts.

⚠ WARNING Burn Hazard! ALWAYS handle hot components with heat-resistant gloves.

GENERAL INFORMATION

This section gives the necessary procedures for routine and general maintenance on the LeeBoy Model Legend Electric Screed System. Follow all the Maintenance Schedules and Maintenance Procedures to maintain the machine in top operating order.

ROUTINE MAINTENANCE

General Information

MAINTENANCE must be a planned program that includes periodic machine inspection and lubrication procedures. The MAINTENANCE program must be done, based on the machine “Operating Hours”, recorded on the hour meter, or based on the “Periodic Schedule”, which is done at time intervals of weekly, monthly, or yearly.

Screed Lubrication

Proper lubrication is necessary to maintain the LeeBoy Model Legend Electric Screed at top efficiency. Refer to the lubrication information in **Table 7-1**. All lubrication points are shown in **Figure 7-1**.

MAINTENANCE SCHEDULE

The Maintenance Schedule lists the recommended time intervals between machine maintenance inspections and lubrication procedures. **Table 7-1** gives inspection and lubrication information for the LeeBoy Model Legend Electric Screed System.

Preventive maintenance on the LeeBoy Model Legend Electric Screed will provide years of trouble-free operation. Adjustments can be performed in the field with ordinary hand tools.

NOTICE The changing of oil and cleaning of the LeeBoy Model Legend Electric Screed System should only be done in a designated area that can contain the oil and chemicals involved in any maintenance requirement. These by-products should be discarded in accordance with environmental regulations.

NOTICE Do not substitute fasteners of any kind unless the fasteners are equal in size and grade as original equipment.

NOTE: When performing any routine maintenance such as 50, 100, 250, 500, and 1000 hours, always include previous routine maintenance hours to the higher hourly schedule.

NOTE: If the machine is operated more than ten hours per day, follow the “Hour” schedule. If the machine is operated less than ten hours per day, follow the “Periodic” schedules, where they apply.

10 Hour or Daily Routine Maintenance

1. Scrape off mix and spray cleaning solvent or release agent on the LeeBoy Model Legend Electric Screed wearplate, extensions, and any place that has come in contact with the mix. All cleaning should be performed while the machine is hot.

⚠ WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTICE If mix is allowed to remain on the screed overnight, possible damage can result on start-up the next day. Poor housekeeping will increase maintenance costs.

2. Remove any debris from screed and check for leaks.

⚠ WARNING Pierce Hazard! Avoid skin contact with high-pressure hydraulic fluid spray caused by a hydraulic system leak such as a broken hydraulic hose line. High-pressure hydraulic fluid can penetrate your skin and result in serious injury. If you are exposed to high-pressure hydraulic fluid spray, obtain prompt medical treatment.

⚠ WARNING Pierce Hazard! Never check for a hydraulic fluid leak with your hands. Always use a piece of wood or cardboard. Have your authorized LeeBoy Dealer or distributor repair the damage.

3. Check for damaged, or loose element wires and harness connections. Repair or replace as required.
4. Lubricate thickness control screws with grease or anti-seize to keep the control screws working smoothly.
5. Check for damaged, loose, or missing decals. Replace decals as required. (See **Decal Installation**).

After The First 50 Hours and Weekly Routine Maintenance

1. For both sides of the screed, lubricate all grease fittings on the flight screw, the fitting on the depth screw, and the fittings on the flange bearings located on top of the extension screed (**Figure 7-1a-c, Table 7-1**). Grease nuts on extension screws.
2. Blow dust from generator unit under hopper conveyor.

SCREED

Extension Top Guide Adjustment

1. Close the left and right extensions to their fully retracted positions.
2. Loosen the five (5) 1/2" bolts that hold the upper slide guide rails on the rear of the screed frames for each side.

NOTE: For 8500 Series Screed: loosen top slide rail bolts, then tighten set screws on top jack bar. Retighten top slide rail bolts. Check for binding - do not overtighten set screws.

3. Use a blunt punch and a hammer to carefully tap the upper slide guide rail down. Access the upper slide guide rails through the small openings in the upper cover near the front of the main screed frame. Start at the outside of the machine, and work to the center. Tighten each of the five (5) 1/2" bolts, one at a time, as you work your way to the center.
4. When the upper slide guide rail is tight, finish tightening the five bolts per side to 75 ft. lbs. (100 N•m.).

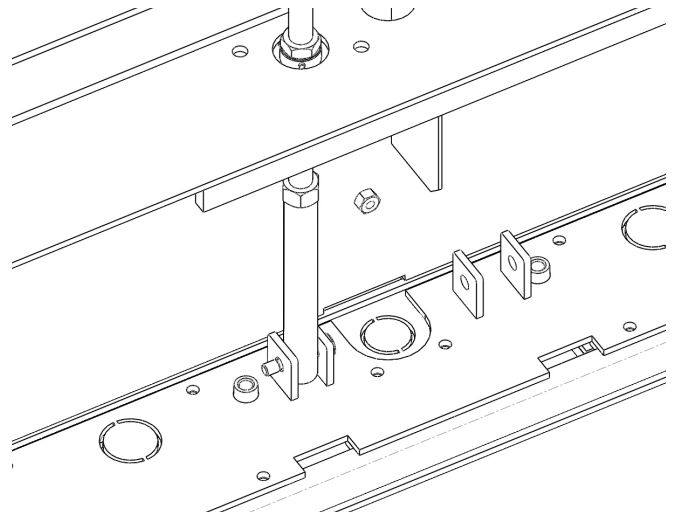
5. Run the extensions out fully and grease the slide track rails.

NOTE: The slide tracks should be greased daily to help prevent excessive wear.

Replacing Screed Extension Wear Plates

Removal

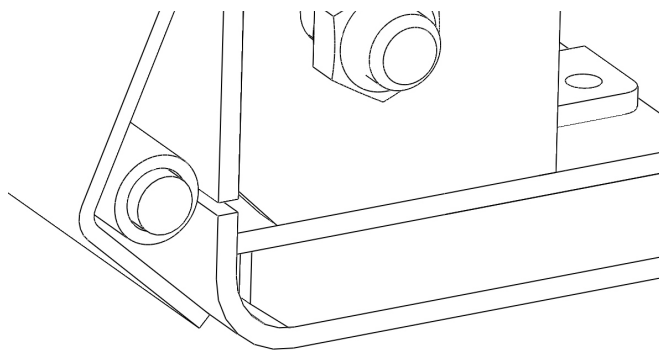
1. Run extension out fully.
2. Remove endgate by disconnecting tilt screw and loosen the 7/8" jam nut.
3. Remove nut. Endgate will drop forward out of slot and slide off of stud.
4. Remove bolts out of lower adjustment bolts on top of wearplate.



Wear Plate Anchor Bolts

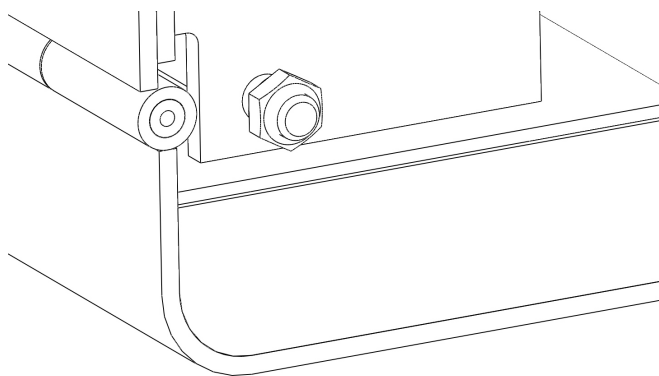
Figure 7-2

5. Locate and unplug the element power wire. Make certain the wire running into the extension screed is loose and will drop away when the screed plate is removed with interference.
6. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
7. Lower screed to ground and pull front pivot pin out on 8515 (**Figure 7-3**), or insert bolt into tip and pull out threaded pivot rod on 8816 (**Figure 7-4**).



8515 Pivot Pin

Figure 7-3



8816 Threaded Pivot Rod

Figure 7-4

8. Lift screed and wearplate should be disconnected.

Installation

1. Clean all areas where new wearplate will be attached.
2. Place new wearplate in position with floor jack or by lowering screed to floor and slide pivot pin in.
3. Reconnect the element power wire and re-tie the power cable to the attachment point provided.

NOTE: Do not tie the power cable so that it is tight. A small amount of slack in the cable where it enters the protective hose fitting is required.

4. Attach adjustment screws to new wearplate.
5. Place endgate back on.
6. Adjust 7/8" nut so that endgate will move up and down freely, then lock in place with jam nut.
7. Connect tilt screw.

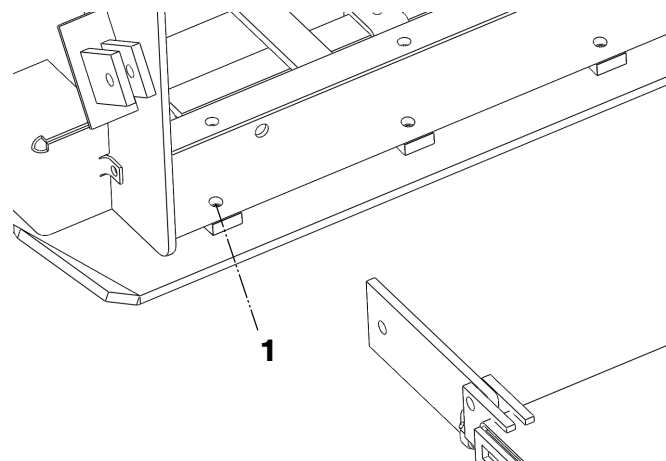
Replacing Screed Main Wear Plates

Removal

1. Remove walkboards.
2. Remove screed lids.

NOTE: Once walkboards are removed lids will slide out.

3. Remove the twenty-four (24) bolts (**Figure 7-5, 1**) holding wearplate to screed frame.



8515 Wear Plate Mounting Bolts

Figure 7-5

4. Under the heating control/distribution box, locate the element attachment plugs. Remove the protective cover, and unplug the main screed elements so that the main element power wires can be lowered with the wearplate.
5. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
6. Before raising screed off of wearplate, clamp center of crown gussets so that screed frame stays flat.
7. Raise screed off of wearplate.

Installation

1. Clean screed frame.
2. Set screed frame down on to new wearplate letting cylinders carry most of weight. This will allow wearplate to be moved to align with bolts.
3. Place five (5) bolts in front left side first, then right side.

NOTE: You may need to clamp or pry around or rotate crown in and out so that five (5) bolts in right side line up.

4. Once these bolts are in place, bolt rear of wearplate up to frame assembly.
5. Once bolts are started, lift screed and set on three 2" x 4" boards to hold flat. Place one board at each end and one in the center.
6. Let screed all the way down and torque bolts from center out, 2 on left side then 2 on right side to 50 ft lbs. (67 N•m).
7. Install screed lids and walkboards.
8. Reconnect all element wires that were unplugged.

SAFETY LABEL INSTALLATION

Anytime the LeeBoy Model Legend Electric Screed has been repainted or the safety labels have been removed, damaged or can't be read, a new set of labels should be ordered and reinstalled for safe operation (**Figure 2-1, 2-2**).

1. Be sure that the installation area is clean and dry. Use hot soapy water and dry the area thoroughly before installing decals.
2. Determine the exact position by taking measurements and test fitting before you remove the backing paper.
3. For safety labels with no top protection paper, determine the label location and remove the smallest portion of the split backing paper.
4. Align the label over the specified area and carefully press the small portion with the exposed adhesive backing into place.
5. Peel back the remaining paper and carefully smooth the remaining portion of the label in place.
6. Small air pockets can be pierced with a pin and smoothed out using the piece of label backing paper.
7. If the label has a protective top paper, use hot soapy water on the surface to which the label is being applied. Leave wet. After determining the location, remove the backing paper and soak the label in clean soapy water before application. This will help prevent air bubbles in the finished label.
8. Smooth the label into place with a sponge and check for air bubbles. Small air pockets may be pierced with a pin and smoothed out. When the label is completely smoothed out, carefully remove the top paper.

ELECTRICAL SYSTEM

NOTICE Use compressed air to blow dirt from generator monthly or more often if used in dirty environment. Do not use high pressure water.

Generator Voltage Testing

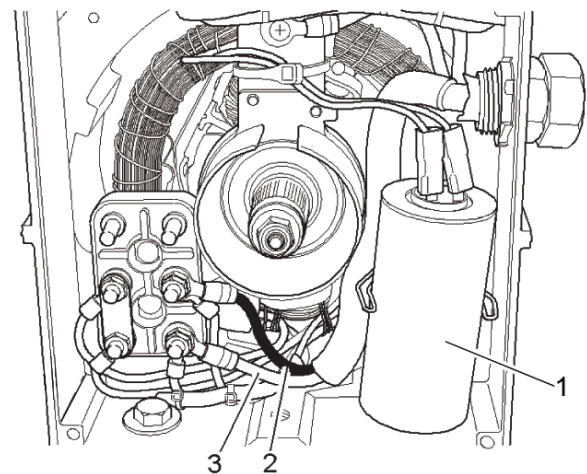
The LeeBoy Model Legend Electric Screed System generator is hydraulically driven. When the paver engine is at full rpm and the hydraulic system at normal operating temperature, the generator should produce between 220VAC and 240VAC.

The voltage of the generator depends on speed (rpm). The voltage increases as rpm increases, and decreases as rpm decreases. The voltage will decrease significantly if generator speed is slower than 3000 rpm.

NOTE: When testing the generator voltage ensure the paver engine is at full rpm and the hydraulic temperature is at normal operating levels.

To test the generator voltage at the generator:

1. Use volt meter to measure between the two main input wires L1 and L2 (**Figure 7-6, 2 & 3**). If you measure from L1 to the frame of the machine, or ground, the voltage will be half of the rated output of the generator. The voltage should be the same as measured at the control box.



Generator Testing View

Figure 7-6

- 1 - Capacitor**
- 2 - L1 (Black Wire)**
- 3 - L2 (White Wire)**

To test the generator voltage at the control box:

1. Use volt meter to measure between the two main black and white input wires located inside the control box on the terminal block similar to one in **Figure 7-6**. The voltage should be the same as measured at the generator.

If your voltage at this point is lower, make certain the generator is turning the correct speed by testing with a Hz meter or photo tachometer as described in the Generator Speed Tuning section below.

Generator Speed Tuning

NOTICE Generator speed tuning should only be done by an authorized LeeBoy Dealer.

A volt meter set to read frequency (Hz) can be used to test the speed of the generator. When the paver engine is at full rpm, the generator should operate at **58 Hz to 61 Hz**, or a speed of 3480 rpm to 3660 rpm. If generator speed drops below 3480 rpm, then voltage output and performance of the heating system will also decrease significantly.

NOTICE The generator should never be allowed to operate at a speed of 3800 rpm or greater. Generator damage will occur and may void your existing warranty. If your speed is above 3800 rpm, stop the set immediately.

NOTE: The generator and electrical system is designed to work within the range of 58 Hz to 61 Hz. It does not need to be set to exactly 60 Hz.

NOTE: When testing the generator speed, make certain that the paver engine is at full rpm and the hydraulic temperature is at normal operating levels.

To Measure Generator Speed:

1. Remove back panel from generator housing to access the rear of the generator.
2. Use volt meter, set to read frequency (Hz), to measure between the two main input wires L1 and L2 (**Figure 7-6**).

NOTE: A photo tachometer may also be used to check the speed of the generator at the motor coupling by removing the motor coupling shield.

CAUTION Always replace shields and panels when finished testing.

3. Note that 60 Hz is exactly 3600 rpm. For every single Hz above 60 an increase of 60 rpm can be added to 3600 rpm. For every single Hz below 60 Hz a decrease of 60 rpm can be subtracted from 3600 rpm.

Example: 60 Hz is 3600 rpm. A reading of 62 Hz would be 3720 rpm. A reading of 58 Hz would be 3480 rpm.

NOTE: The integrated flow control manifold is pre-set and will maintain the generator at its proper speed if the correct amount of oil is supplied to the set. If the temperature of the hydraulic system rises above 160°F, some slippage may occur through the gear set of the generator motor, and the generator may slow slightly.

There is a fine tune adjustment (**Figure 7-3,1**) provided on the top of the manifold. This adjustment will only effect the speed of the generator a small amount. The manifold should not be out of adjustment any more than 1/8 turn of this adjustment.

To Fine Tune Generator Speed:

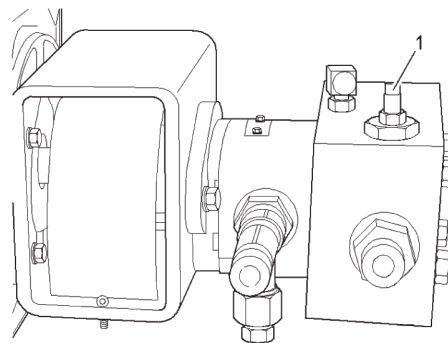
NOTICE Over adjustment will cause damage to the generator and void the warranty.

NOTE: Generator Speed should only be adjusted by an Authorized LeeBoy Dealer.

1. Locate the Fine Tune Adjuster (**Figure 7-7,1**) and turn to increase or decrease the speed as needed.

NOTE: Clockwise (CW) adjustment will slow the generator down.

Counter Clockwise (CCW) adjustment will speed the generator up.



Generator Fine Tuning

Figure 7-7

1 - Fine Tune Adjuster

If your generator will not operate at the correct speed it may be necessary to test the hydraulic flow from the pump, or check the generator motor for excessive case drain flow. The case drain of the motor should not leak more than 1 gallon per minute. Replace the generator motor or paver pump if either are found to be operating incorrectly.

Generator Capacitor Replacement

The capacitor (**Figure 7-6,1**) located in the rear of the generator controls and regulates the voltage in the generator while in operation. If this capacitor fails, the voltage will drop to little or no output at all.

Replacing this capacitor with one of the same type and value will help determine if the capacitor is at fault.

To replace generator capacitor:

1. Ensure that the paver and generator engines are off.
2. Detach the wires at the top of the capacitor.
3. Remove the capacitor and replace with a new one of the same type and value.
4. Re-attach the leads at the top of the capacitor.

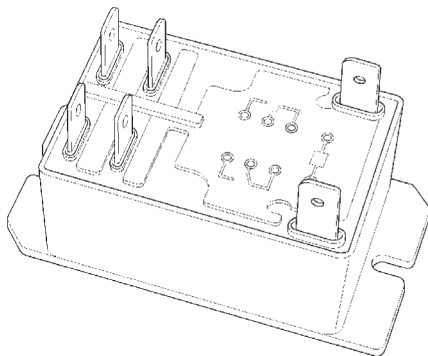
There are no other voltage adjustments that can be made to the generator.

Testing Element Relays

The element relays are 12vdc controlled, and have dual contacts rated for 240VAC.

To test element relay:

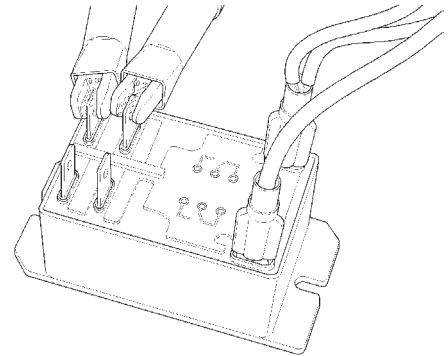
1. Disconnect any wires to the relay, or completely remove it from the control box (**Figure 7-8**).



Relay

Figure 7-8

2. Place the leads of an ohm meter, or continuity tester across the contact terminals (2 to 4) or (6 to 8) as shown in **Figure 7-9**.



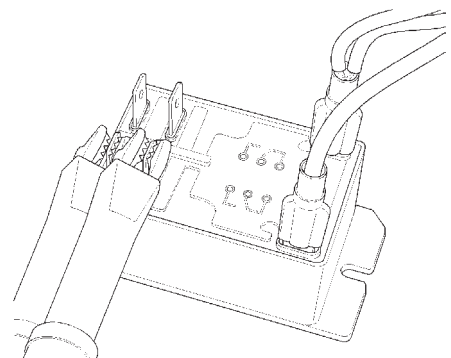
First Terminal Set Testing

Figure 7-9

NOTE: Without 12vdc applied to the coil of the relay, the contact terminals should have no continuity through them. The contacts should be “open”. If the contacts are closed, and you do not have 12vdc applied to the coil of the relay, your contacts are not correct, and the relay should be replaced.

3. With the ohm meter still on the contact terminals, apply 12vdc to the coil terminals of the relay (**Figure 7-10**).

NOTE: The contact terminals should now close and show a path through them for the power to be applied to the electrical elements. If the relay does not work as described above, it may be faulty, and should be replaced.



Second Terminal Set Testing

Figure 7-10

Element Resistance Testing

When a breaker in the control box has tripped, it must be assumed that there may be a problem with wiring or an actual element in the circuit.

Elements used to heat the screed are sized depending on how much area and material they are required to heat. The actual resistance of the element will vary depending on what wattage the element is in the specific application.

To know that the element is correct, you should read a resistance between **28 ohms and 60 ohms**. If the element is bad, the reading will be very different from this range. The element that is bad will most likely read “open” or it will read very little resistance (less than 1 ohm) and will indicate a short through the element.

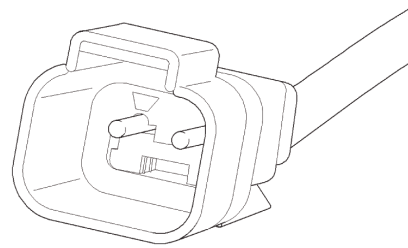
To test element resistance:

1. Disconnect element one at a time from the connection point on the lower side of the control box.
2. Use an ohm meter and test the resistance through the element between the two pins in the plug at the end of the element cable (**Figure 7-11**).

NOTE: You do not have to test the plug attached to the lower side of the control box.

3. Test between the two pins shown here with an ohm meter.
4. Test plug at end of element wires.
5. Before the element is plugged back in, check each wire (pin) with an ohm meter test lead, and place the other lead on a bare steel section of the screed frame. If there is any continuity through the element to the frame, the element is bad and must be left disconnected or replaced.

⚠ WARNING Fire Hazard! Do not attempt to operate an element with a known short. Replace faulty elements and wiring before using.



Element Plug End

Figure 7-11



Section 8
TROUBLESHOOTING

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Troubleshooting Chart	8-2

TROUBLESHOOTING CHART

The troubleshooting chart below identifies the most common symptoms of failure. Use this chart to help identify the failed component and possible remedies. If the problem persists, see your authorized LeeBoy Dealer.

Table 8-1. Troubleshooting Chart

SYMPTOM	CAUSE	REMEDY
Screed heating system will not operate at all.	Control box power switch not in ON position.	Ensure that the screed control box power switch is in ON position.
	Main breaker is in tripped position	Ensure main breaker is in the “set” position (Figure 6-11, 2).
	Element breakers are in tripped position	Ensure all element breakers are in their “set” position with no breakers showing a tripped condition (Figure 6-13, 2).
	Engine not operating at proper throttle.	Ensure the paver is running. Set the throttle on paver to full engine rpm. NOTE: Throttle positions less than full will still produce screed heat, but at a reduced rate and temperature.
Screed heats, but one screed section does not.	Screed section not plugged into bottom of control box out puts.	Ensure the screed not heating is plugged into the bottom of the control box out puts.
	Element breakers for screed section in a tripped condition.	Ensure the element breakers for that screed section are not tripped.
	Faulty element relay.	See Testing element relays, or Testing element resistance.
When starting the heat system, it will not stay running long, or at all.	Heat system timed out.	Check System Timer.
Screed is heating, but never gets hot enough to pave.	Engine not operating at proper throttle.	Ensure the paver is running. Set the throttle on paver to full engine rpm. NOTE: Throttle positions less than full will still produce screed heat, but at a reduced rate and temperature.
	Elements improperly clamped.	Go over proper element installation procedures, and ensure elements are clamped properly.
	Generator malfunction.	See Generator speed tuning. See Generator voltage testing.
Heating system seems to be working, but the light isn't on.	HEAT ON light is burned out.	Replace the HEAT ON light.
Elements have been tested but the breaker still trips.	Faulty element wiring.	Test or inspect element wiring.
	Faulty breaker.	Replace defective breaker.



Section 9

SCHEMATICS

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8515/8816 CONTROL SCHEMATIC

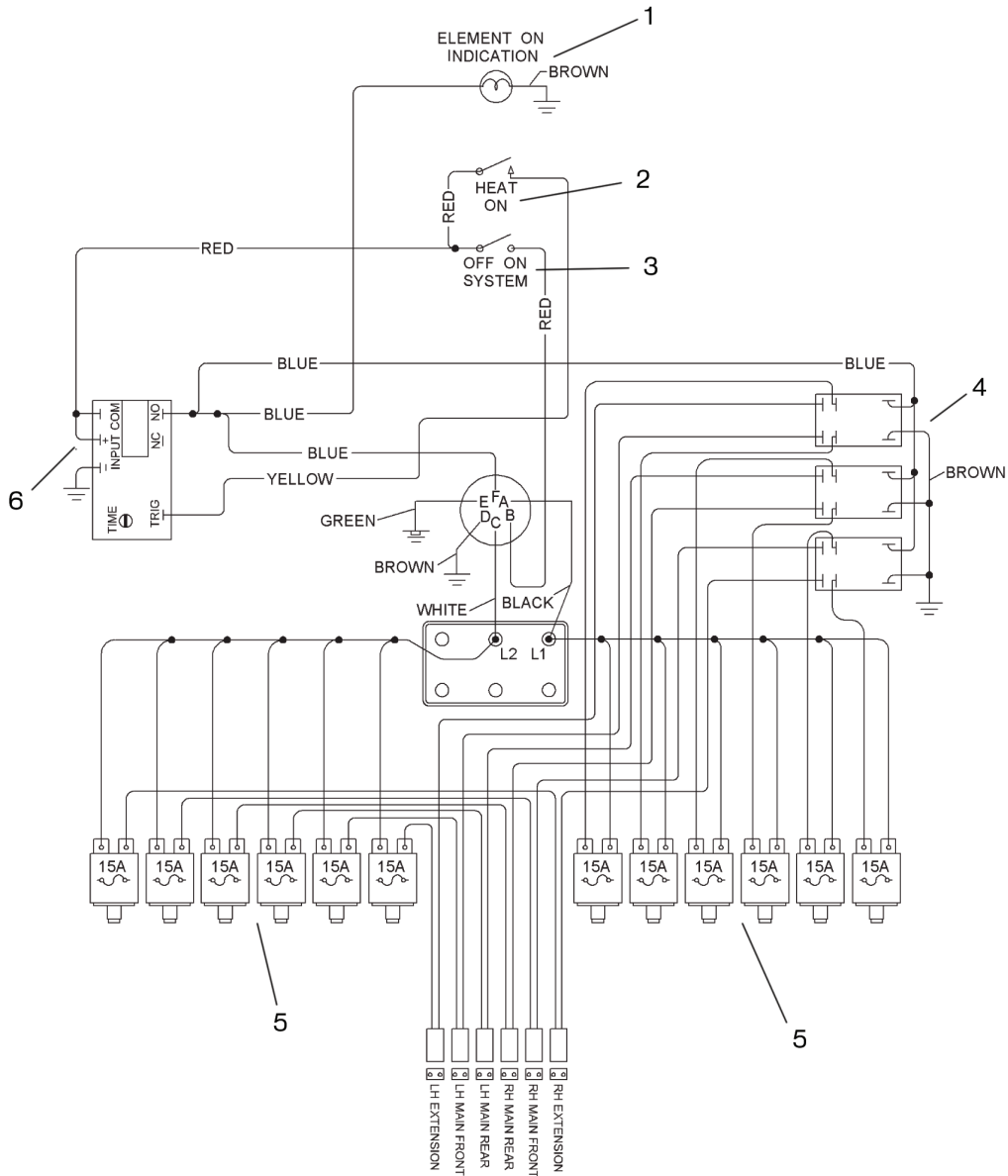


Figure 9-1

8515 REMOTE SCREED OPERATOR CONTROL BOX ELECTRICAL SCHEMATIC

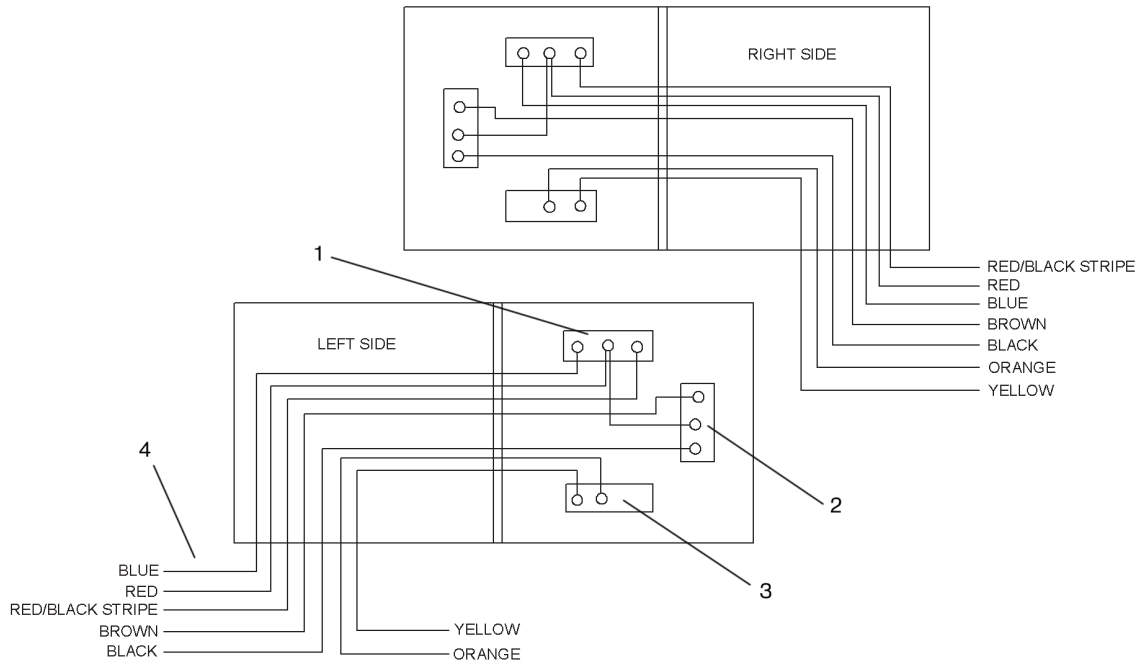
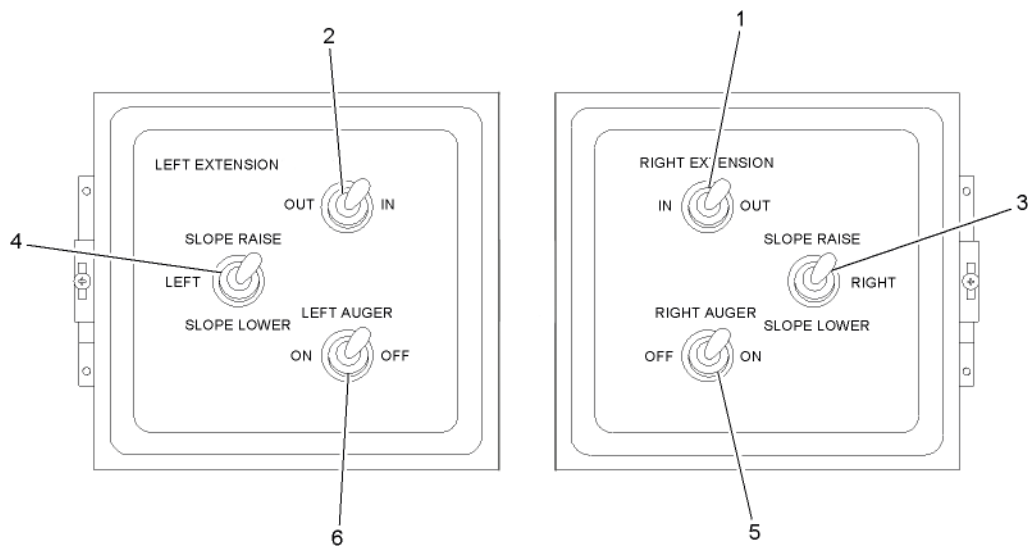


Figure 9-2

(For Reference Only: 8515 Remote Screed Operator Control Box Illustration)



8816 REMOTE SCREED OPERATOR CONTROL BOX ELECTRICAL SCHEMATIC

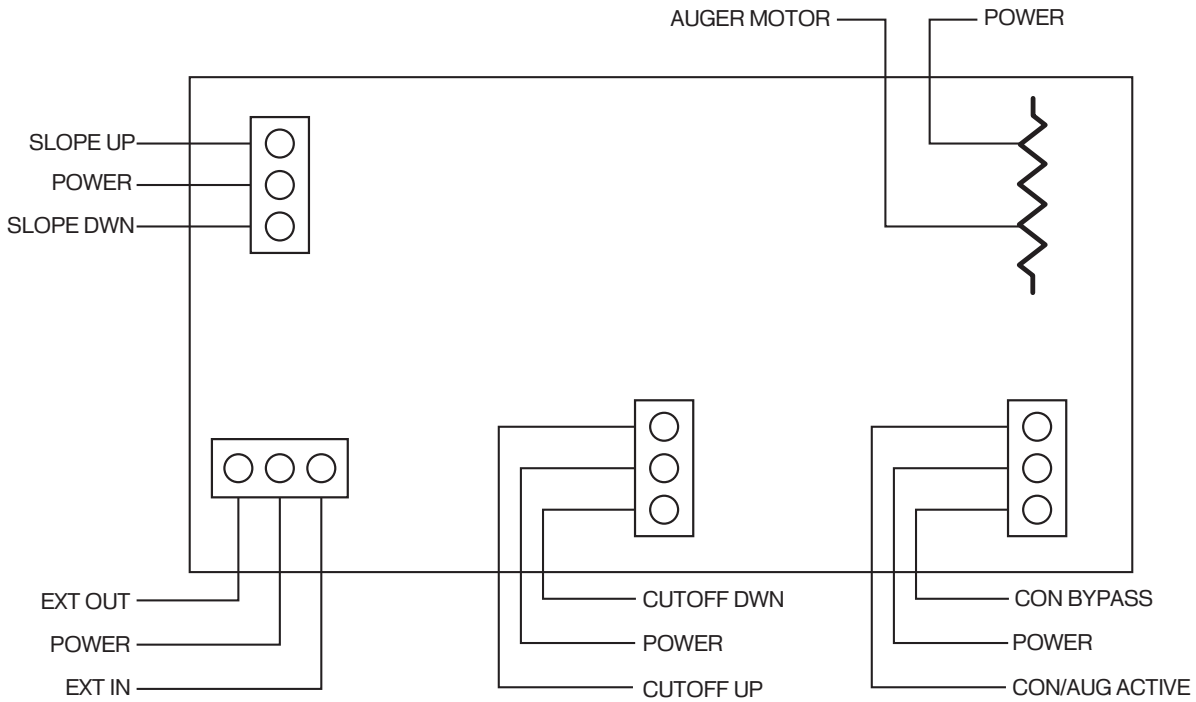
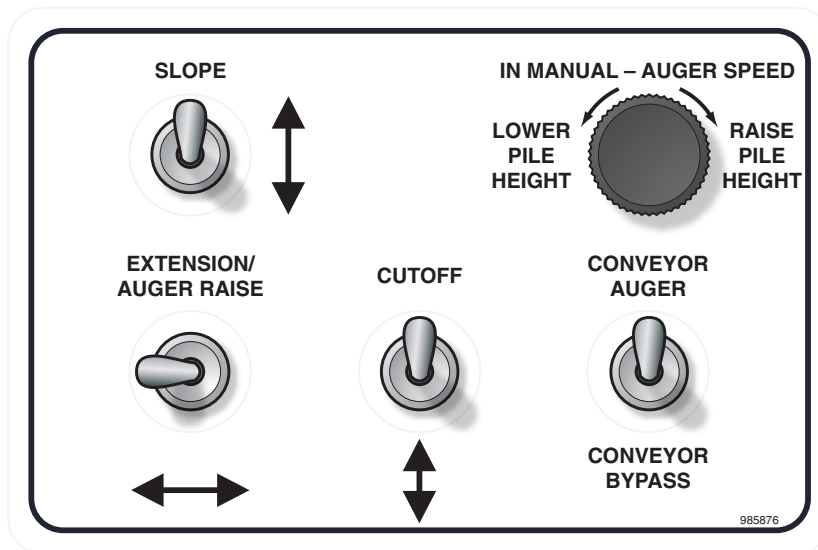


Figure 9-3

(For Reference Only: 8816 Remote Screed Operator Control Box Illustration)



NOTE: Replacement parts shown in Figure 10-29.



Section 10

ILLUSTRATED PARTS LIST (IPL)

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Illustrated Parts List (IPL)



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NOTES

8500 SERIES SCREED NON-SLOPING OVERVIEW

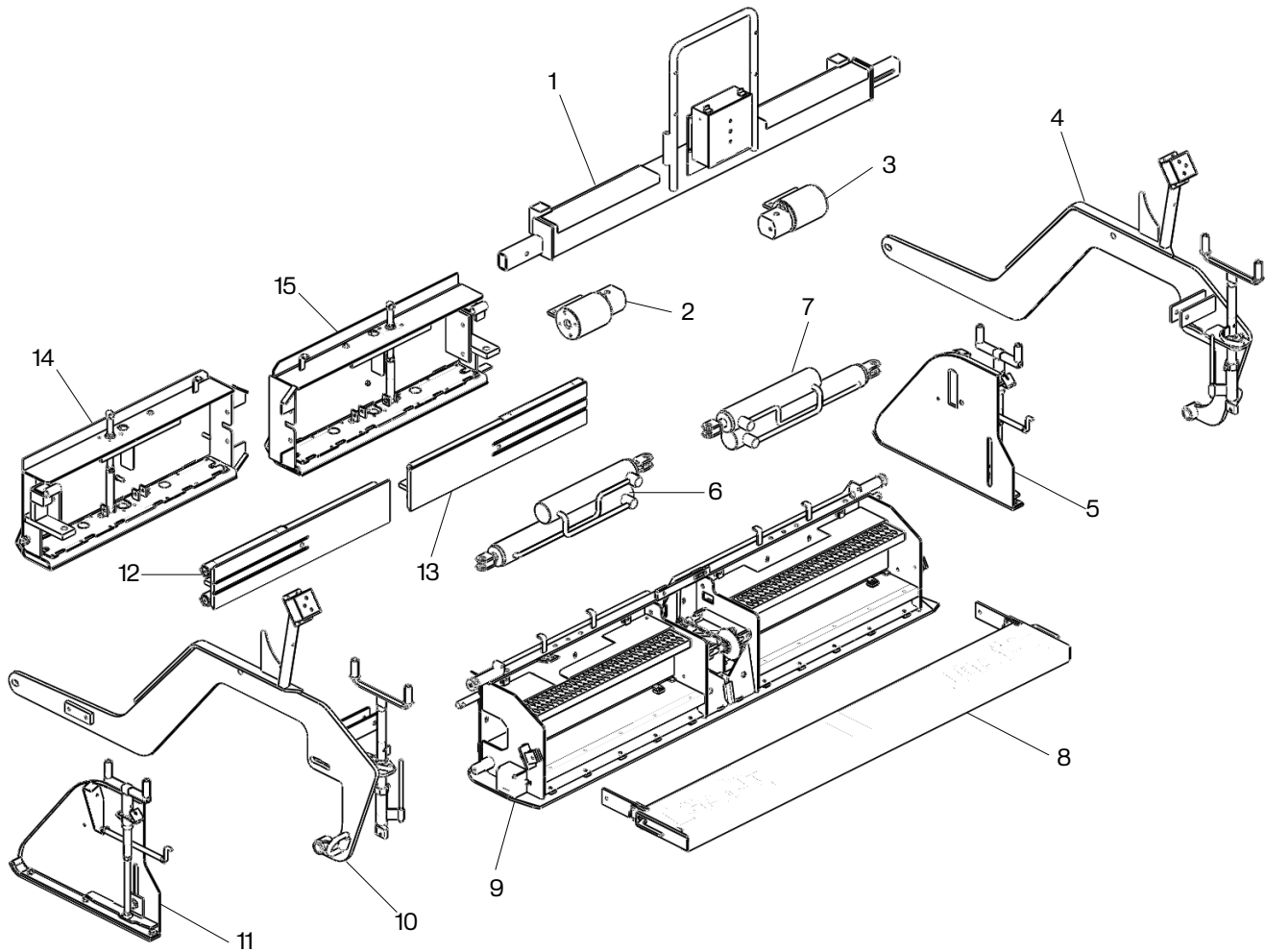


Figure 10-1

8500 Series Screed Non-sloping Figure List

Item No.	Ref. Figure	Description	Remarks
1	10-17	8515 Screed Citrus Tank and Electric Heat Control Box	
2	10-5	8515 Screed Vibrator Assembly LH	
3	10-6	8515 Screed Vibrator Assembly RH	
4	10-16	8515 Screed Pull Arm and Remote Control Box RH	
5	10-14	8515 Screed Endgate Assembly RH	
6	10-18	8515 Screed Miscellaneous Components	
7	10-18	8515 Screed Miscellaneous Components	
8	10-7	8515 Screed Walk Board Assembly	
9	10-3	8515 Screed Frame Non-Sloping	
10	10-15	8515 Screed Pull Arm and Remote Control Box LH	
11	10-13	8515 Screed Endgate Assembly LH	
12	10-8	8515 Screed Slide Plate Assembly	
13	10-8	8515 Screed Slide Plate Assembly	
14	10-9	8515 Screed Extension Single Adjuster LH	
15	10-10	8515 Screed Extension Single Adjuster RH	

8500 SERIES SCREED SLOPING OVERVIEW

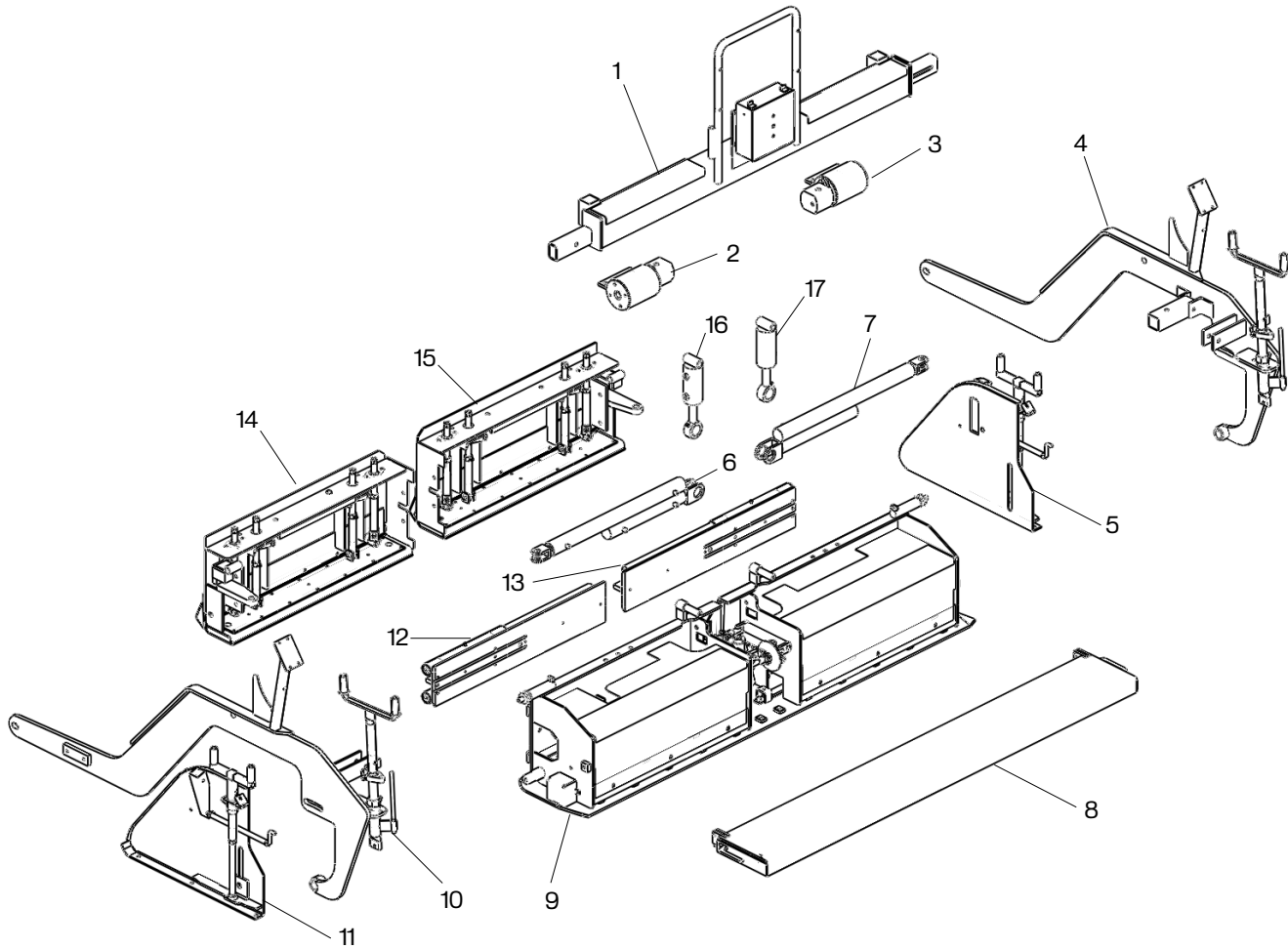


Figure 10-2

8500 Series Screed Sloping Figure List

Item No.	Ref. Figure	Description	Remarks
1	10-17	8515 Screed Citrus Tank and Electric Heat Control Box	
2	10-5	8515 Screed Vibrator Assembly LH	
3	10-6	8515 Screed Vibrator Assembly RH	
4	10-16	8515 Screed Pull Arm and Remote Control Box RH	
5	10-14	8515 Screed Endgate Assembly RH	
6	10-18	8515 Screed Miscellaneous Components	
7	10-18	8515 Screed Miscellaneous Components	
8	10-7	8515 Screed Walk Board Assembly	
9	10-4	8515 Screed Frame Sloping	
10	10-15	8515 Screed Pull Arm and Remote Control Box LH	
11	10-13	8515 Screed Endgate Assembly LH	
12	10-8	8515 Screed Slide Plate Assembly	
13	10-8	8515 Screed Slide Plate Assembly	
14	10-11	8515 Screed Extension Double Adjuster LH	
15	10-12	8515 Screed Extension Double Adjuster RH	
16	10-8	8515 Screed Miscellaneous Components	
17	10-8	8515 Screed Miscellaneous Components	

8500 SERIES SCREED FRAME NON-SLOPING

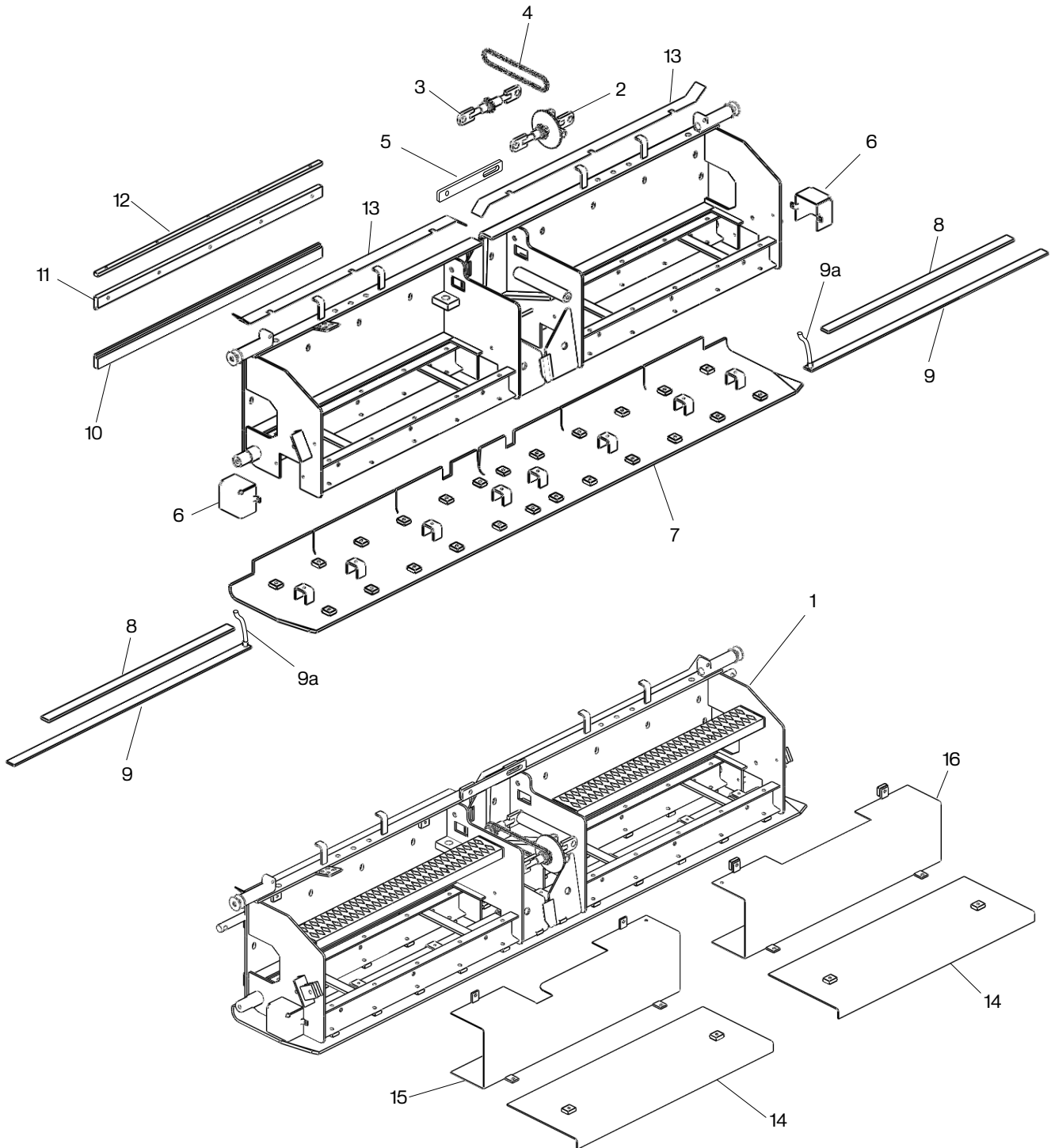


Figure 10-3

8500 Series Screed Frame Non-Sloping Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	989377	1	Group, Screed Base 8500 Series Elec	Includes item 14, 15, 16
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40x52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
6	985124	2	Cover, Elements, Screed Base	
7	987216SRV	1	Wear Plate Assembly, Electric	
8	985121	2	Bar, .375x1.5x42	
9	987886SRV	2	Element, Heater, Screed, 46"	
9a	985699-03	2	Wiring, Element, Heater Pigtail	
10	855783	1	Bottom Rail, 8500 Screed Ext	
11	855784	1	Top Rail, 8500 Screed Ext	
12	988556	1	Bar Jack, Screed Slide	
13	855562	1	Bar, .125x2.00x44.50, Notches	RH or LH
14	851201SRV	2	Cover, Screed Plate Access	
15	851204SRV	1	Cover, Screed LH Ext Cyl	
16	851203	1	Cover, Screed RH Ext Cyl	

8500 SERIES SCREED FRAME SLOPING

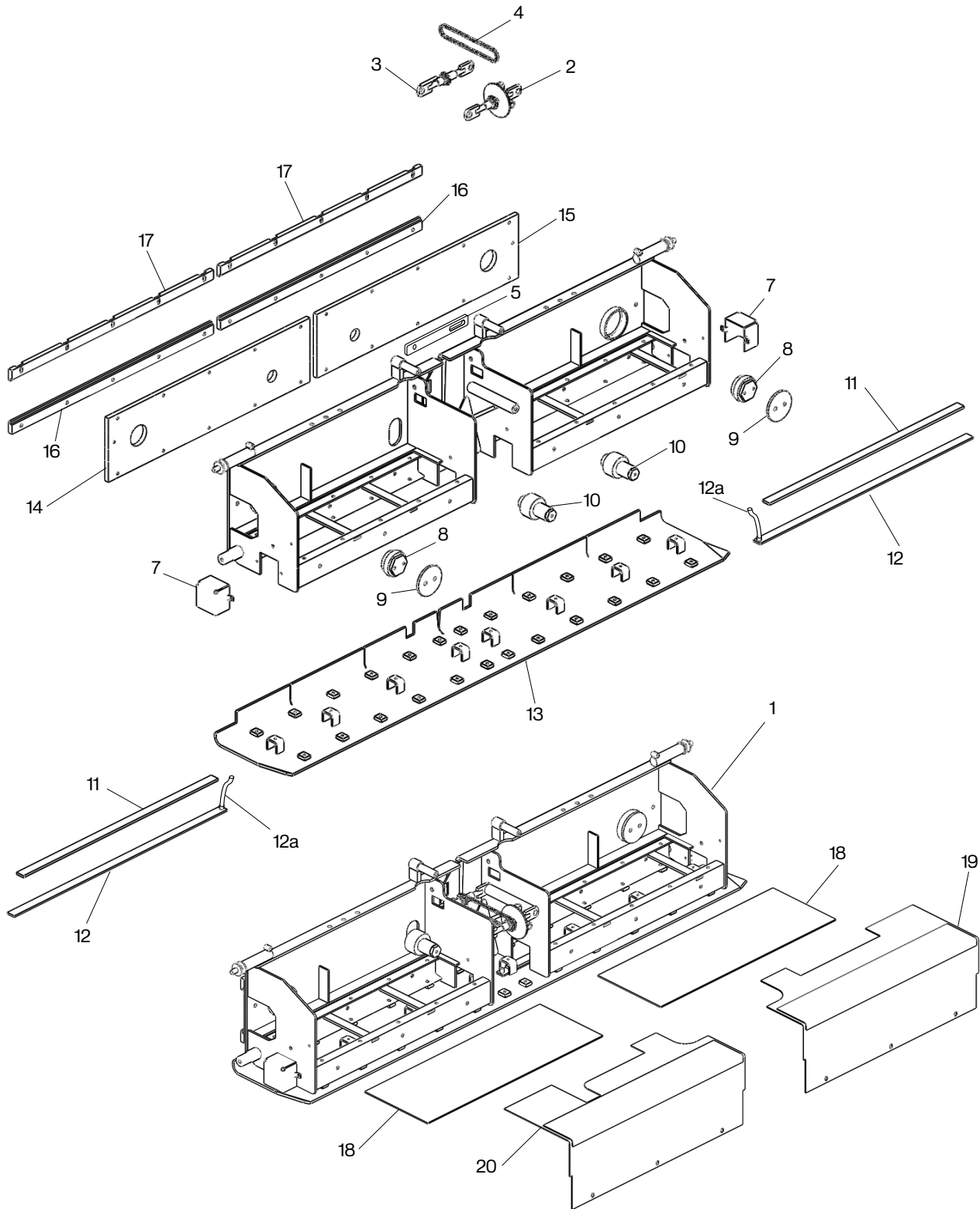


Figure 10-4

8500 Series Screed Frame Sloping Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985547	1	Screed Base, 8515 Electric Slope	Includes item 18, 19, 20
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40x52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
6	985547	1	Screed Base, 8515 Electric Slope	
7	985124	2	Cover, Elements, Screed Base	
8	981659	2	Bar, Pivot	
9	981711	2	Plate, Pivot Cover	
10	981661	2	Pin, Cyl Mount	
11	985121	2	Bar, .375x1.5x42	
12	987886SRV	2	Element, Heater, Screed, 46"	
12a	985699-03	2	Wiring, Element, Heater Pigtail	
13	987216SRV	1	Wear Plate Assembly, Electric	
14	981656	1	Plate, Rail Mount	
15	981656	1	Plate, Rail Mount	
16	981658	2	Bar, Bottom Rail	
17	981657	2	Bar, Top Rail	
18	985149	2	Cover, Screed Elements	
19	985147	1	Plate, Screed Cover, RH	
20	985148	1	Plate, Screed Cover, LH	

8500 SERIES VIBRATOR ASSEMBLY LH

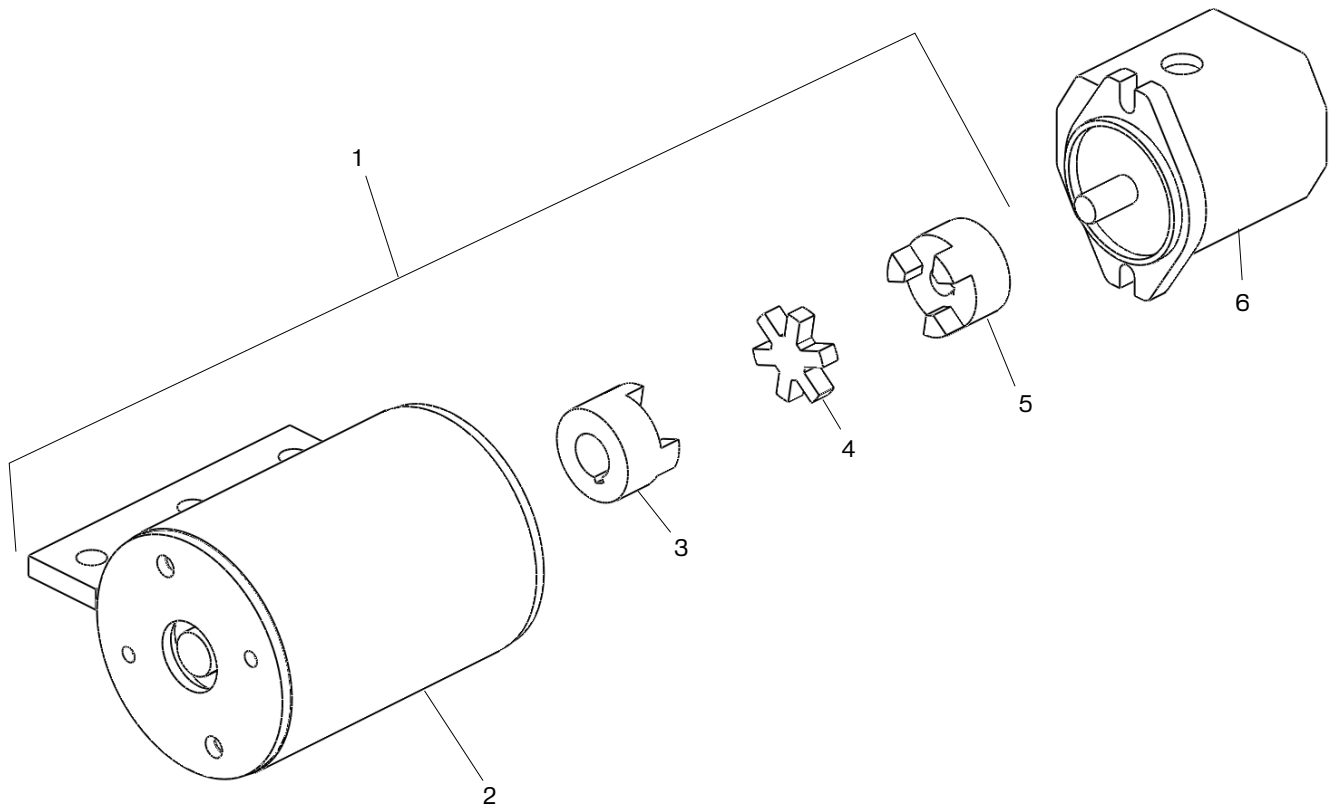


Figure 10-5

8500 Series Vibrator Assembly LH Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965L	1	Assy, Vibrator LH	
2	982965L-1	1	Vibrator Housing, LH	
3	880030	1	Coupling Half, 1", Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hydraulic Motor, Screed Vibrator	

8500 SERIES VIBRATOR ASSEMBLY RH

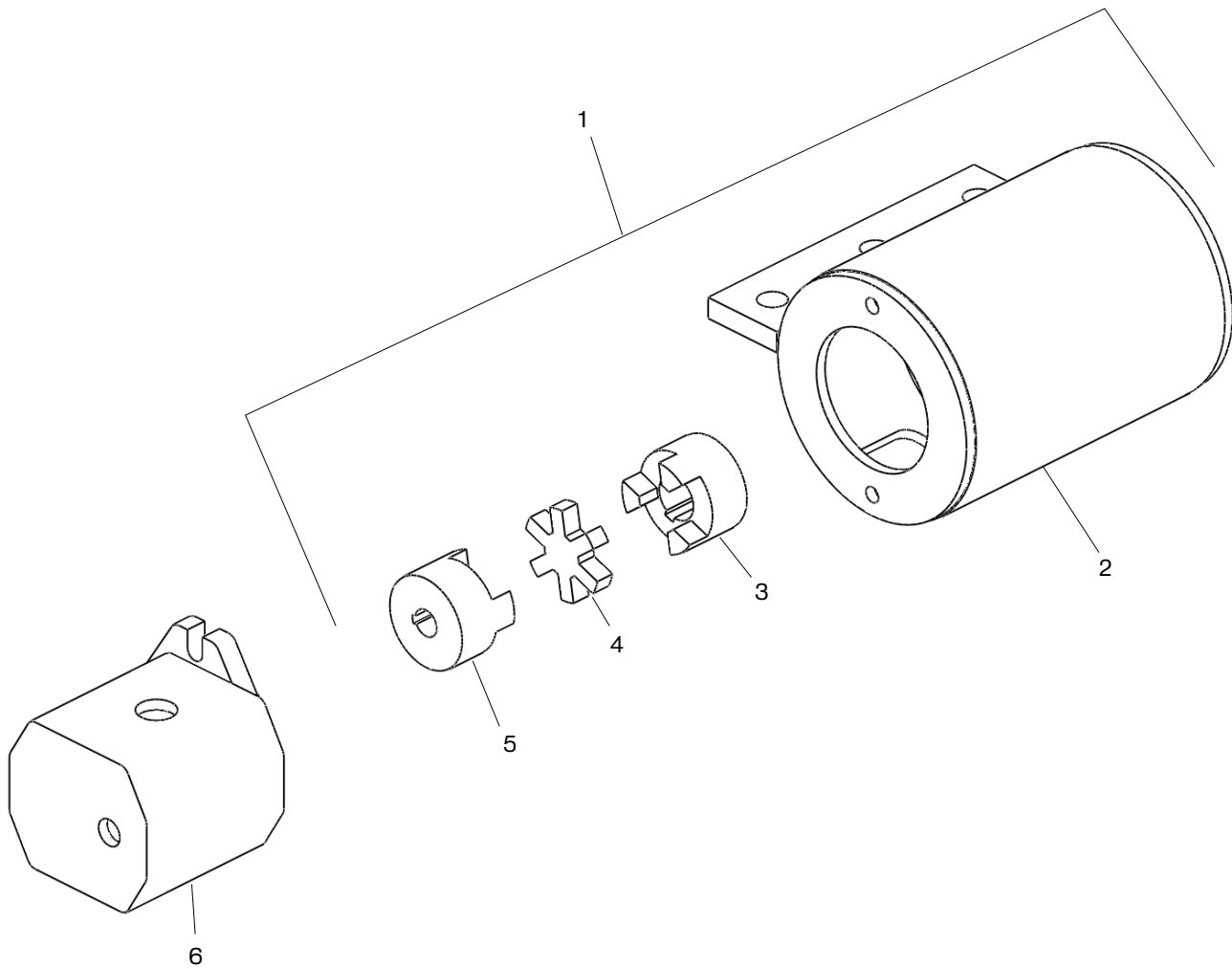


Figure 10-5

8500 Series Vibrator Assembly RH Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965RSRV	1	Assy, Vibrator RH	
2	982965R-1	1	Vibrator Housing, RH	
3	880030	1	Coupling Half, 1", Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hydraulic Motor, Screed Vibrator	

8500 SERIES WALK BOARD ASSEMBLY

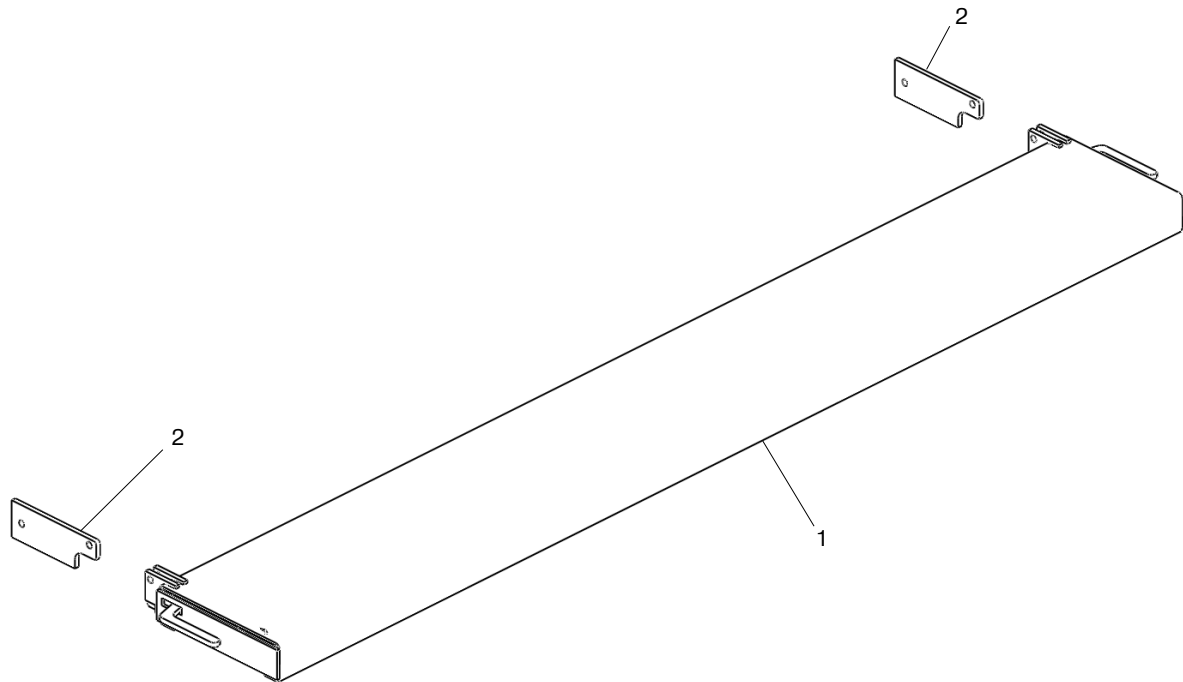


Figure 10-7

8500 Series Walk Board Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987056	1	Assy, Walk Board	Includes item 2
2	985163	2	Walk Board Brkt	

8500 SERIES SLIDE PLATE ASSEMBLY

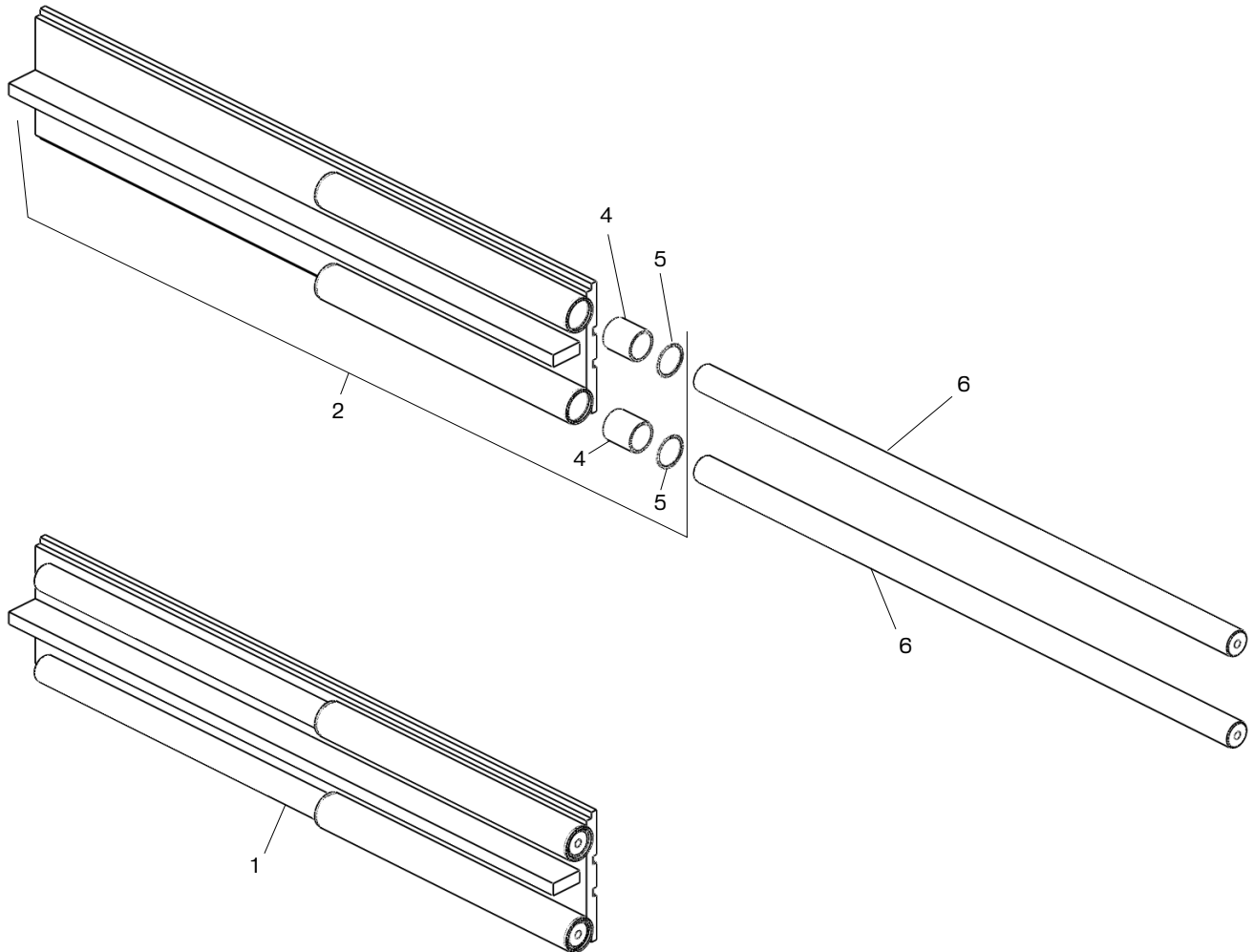


Figure 10-8

8500 Series Slide Plate Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002186	1	Slide Plate Assembly with Chrome Rods	
2	1002181	1	Slide Plate Assembly	
4	988588	4	Bushing	
5	851256	4	Snap Ring	
6	988601	2	Chrome Rod	

8500 SERIES EXTENSION SINGLE ADJUST LH ASSEMBLY

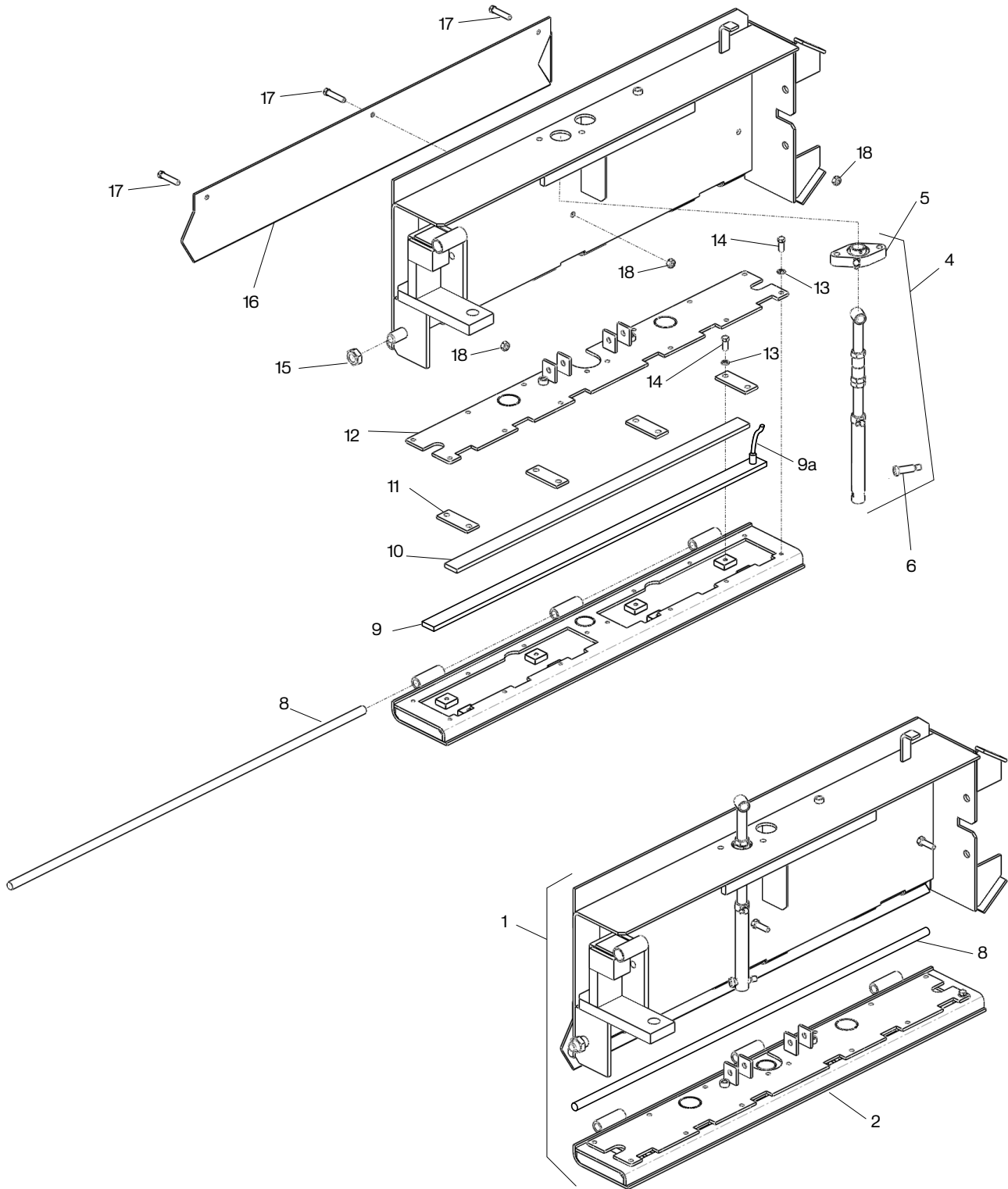


Figure 10-9

8500 Series Extension Single Adjuster LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985561SRV	1	Assy, Insert, Electric, 8500, LH	
2	987872SRV	1	Assy, Heat Box, Elec, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688x43.50, CRS	
9	987890SRV	1	Element, Heater, Screed, 40"	
9a	985699-03	1	Wiring, Element, Heater Pigtail	
10	985120	1	Bar, .25x1.5x36	
11	985123	4	Clamp, Element, Screed Ext	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24X1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180LSRV	1	Guard, LH Screed Ext Hinge	
17	860048	3	CSHH, .437-14X1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

8500 SERIES EXTENSION SINGLE ADJUST RH ASSEMBLY

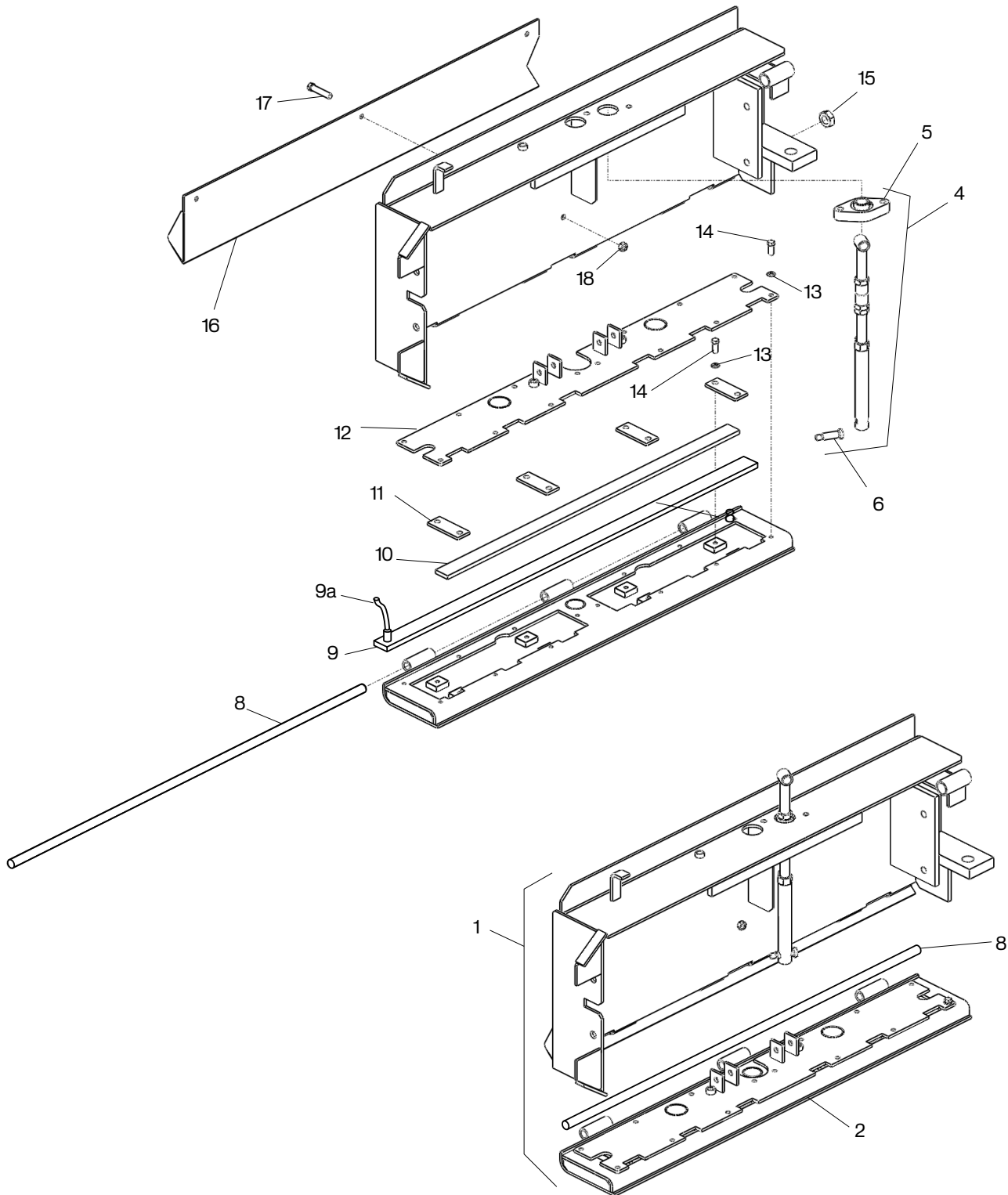


Figure 10-10

8500 Series Extension Single Adjuster RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985562SRV	1	Assy, Insert, Electric, 8500, RH	
2	987872SRV	1	Assy, Heat Box, Elec, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688x43.50, CRS	
9	987890SRV	1	Element, Heater, Screed, 40"	
9a	985699-03	1	Wiring, Element, Heater Pigtail	
10	985120	1	Bar, .25x1.5x36	
11	985123	4	Clamp, Element, Screed Ext	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24X1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180RSRV	1	Guard, RH Screed Ext Hinge	
17	860048	3	CSHH, .437-14X1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

8500 SERIES EXTENSION DOUBLE ADJUST LH ASSEMBLY

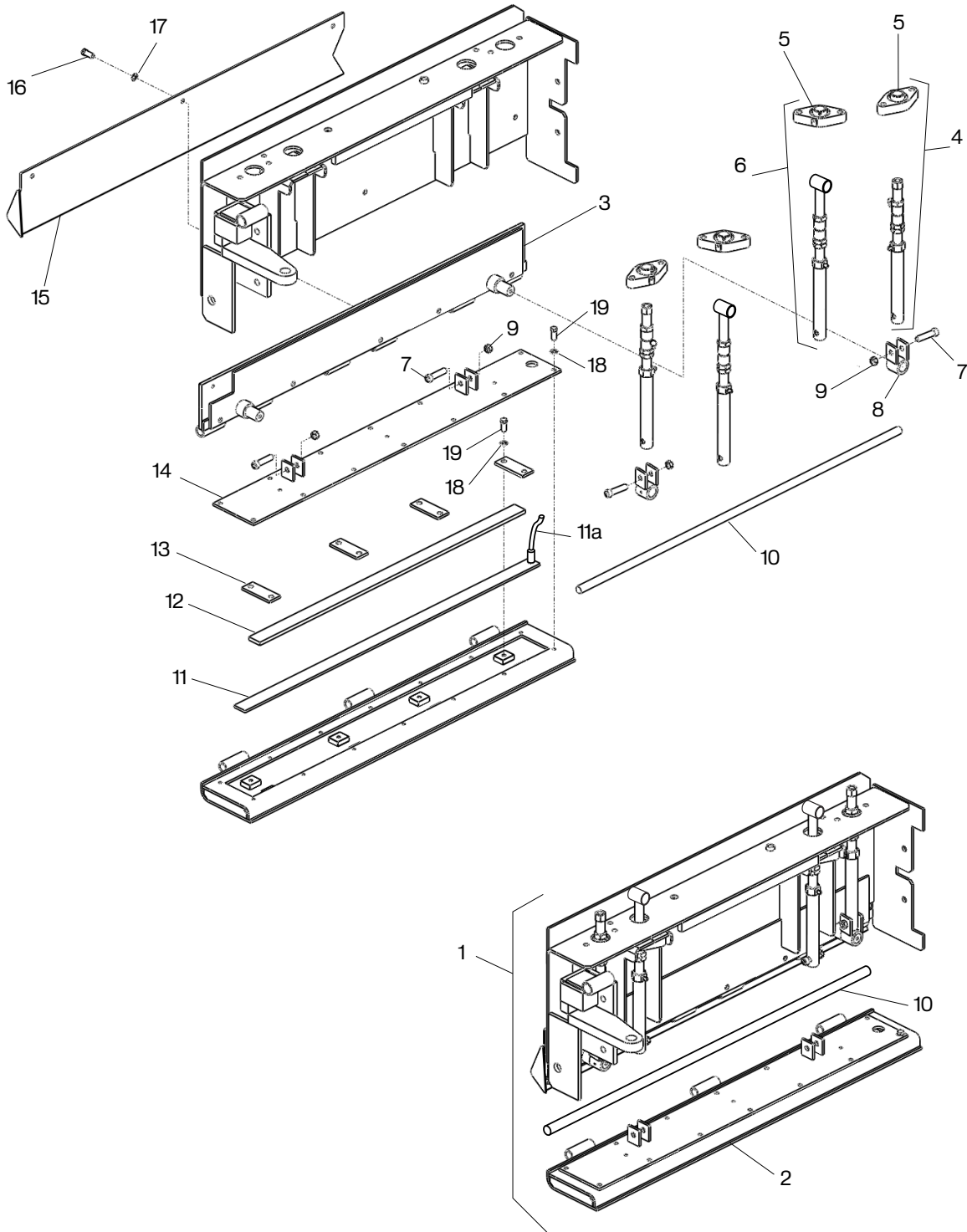


Figure 10-11

8500 Series Extension Double Adjuster LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984305	1	Assy, Insert, Slope, Elec, LH	With Slope
1a	984305-1	1	Assy, Insert, Elec, LH	(Not Shown) Without Slope
2	988319SRV	1	Assy, Heat Box, Elec, 4 Adjust	
3	1002735	1	Hinge Assembly	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688x43.50, CRS	
11	987890SRV	1	Element, Heater, Screed, 40"	
11a	985699-03	1	Wiring, Element, Heater Pigtail	
12	985120	1	Bar, .25x1.5x36	
13	985123	4	Clamp, Element, Screed Ext	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180LSRV	1	Guard, LH Screed Ext Hinge	
16	80230	3	CSHH, .375-16X2.00	
17	119-4	3	Washer, Lock, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20X1.0	

8500 SERIES EXTENSION DOUBLE ADJUST RH ASSEMBLY

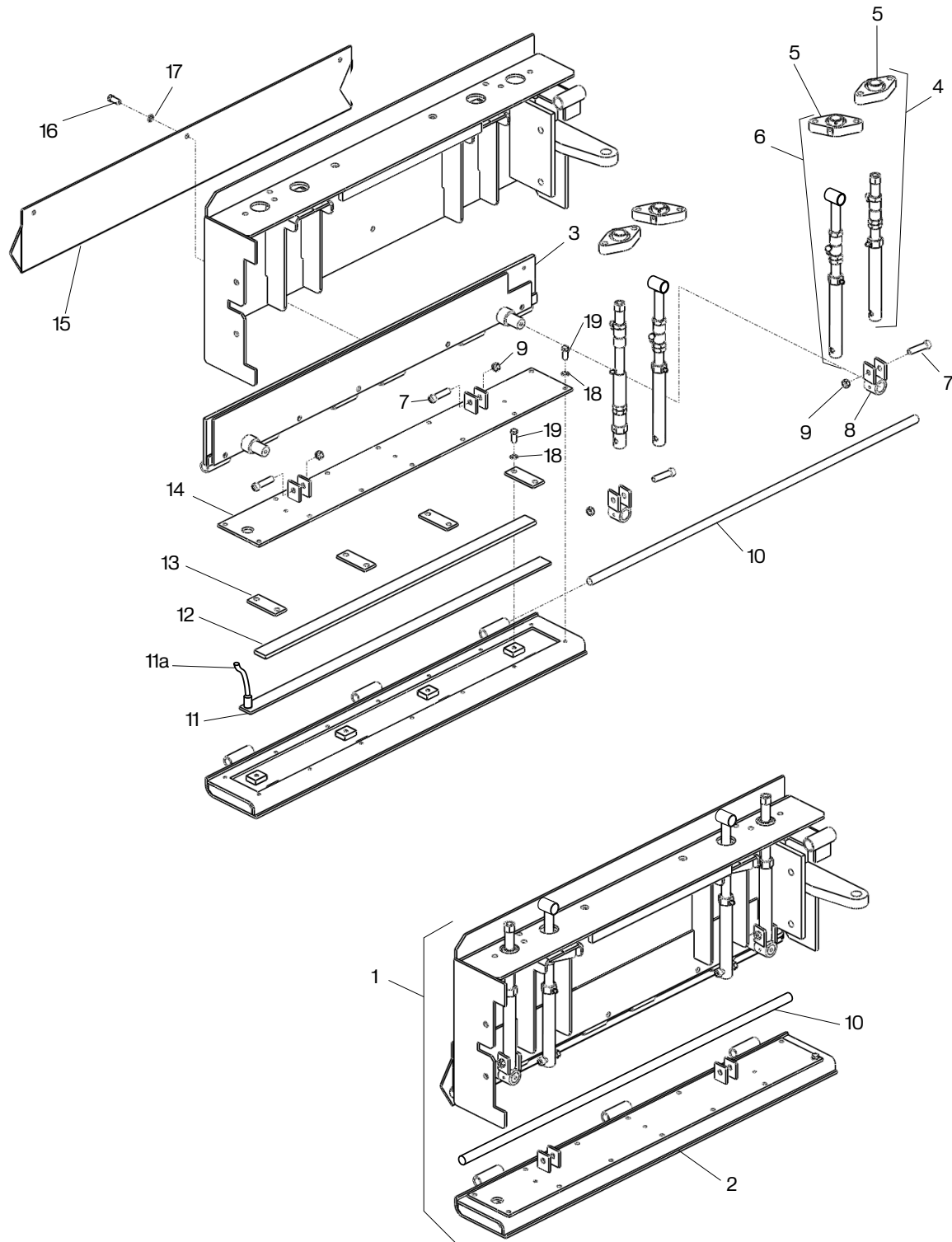


Figure 10-12

8500 Series Extension Double Adjuster RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984306SRV	1	Assy, Insert, Slope, Elec, RH	With Slope
1a	984306-1	1	Assy, Insert, Elec, RH, 4	(Not Shown) Without Slope
2	988319SRV	1	Assy, Heat Box, Elec, 4 Adjust	
3	1002736	1	Hinge Assembly	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688x43.50, CRS	
11	987890SRV	1	Element, Heater, Screed, 40"	
11a	985699-03	1	Wiring, Element, Heater Pigtail	
12	985120	1	Bar, .25x1.5x36	
13	985123	4	Clamp, Element, Screed Ext	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180RSRV	1	Guard, RH Screed Ext Hinge	
16	80230	3	CSHH, .375-16X2.00	
17	119-4	3	Washer, Lock, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20X1.0	

8500 SERIES ENDGATE LH ASSEMBLY

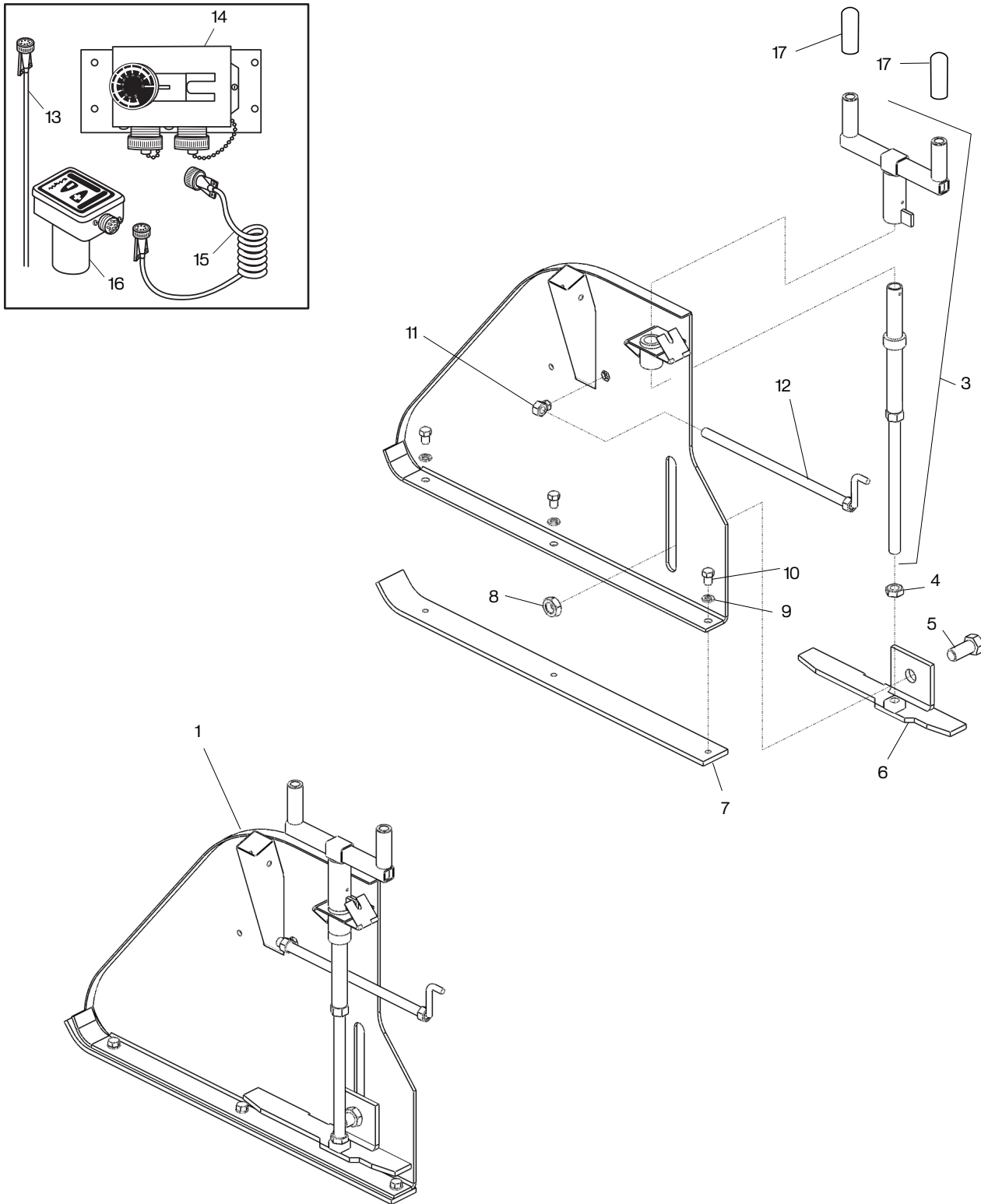


Figure 10-13

8500 Series Endgate LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983308SRV	1	Jointer Assy, 8515, LH	
3	890092SRV	1	Depth Screw Assy, Screed	
4	116-8-1	1	Nut, .750-10 UNC Hex Jam	
5	102-809-1A	1	CSHH, .875-9X2.00, GR5	Reference Only
6	890132LSRV	1	Bracket, Depth Screw Control LH	
7	982963	1	Bar, End Gate Skid 8515	
8	116-9	1	Nut, .875-9 Hex	
9	80164	3	Washer, Lock, .500	
10	80840	3	CSHH, .500-13X0.75	
11	890070	1	Assy, Adjusting Swivel Nut	
12	890081SRV	1	Tilt Screw, Jointer Assy	
13	983271	1	Cable, Sonic Sensor Straight	
14	982795	1	Remote Pod, Ultra Sonic	
15	982796	1	Power Cable, Ultra Sonic	
16	982794	1	Sensor, Ultra Sonic	
17	870276	2	Hand Grip, Flight/Depth Screw	

8500 Series Endgate RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983309SRV	1	Jointer Assy, 8515, RH	
3	890092SRV	1	Depth Screw Assy, Screed	
4	116-8-1	1	Nut, .750-10 UNC Hex Jam	
5	102-809-1A	1	CSHH, .875-9X2.00, GR5	Reference Only
6	890132RSRV	1	Bracket, Depth Screw Control RH	
7	982963SRV	1	Wear Plate, End Gate, 8515	
8	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
9	118-5	3	Washer, Lock, .500	
10	80840	3	CSHH, .500-13X0.75	
11	890070	1	Assy, Adjusting Swivel Nut	
12	890081SRV	1	Tilt Screw, Jointer Assy	
13	982796	1	Cable, Power, Ultrasonic	
14	982795	1	Remote Pod, Ultra Sonic	
15	983050	1	Coil Cord, 6s/6s 1.5 to 7.5 ft	
16	982794	1	Sensor, Ultra Sonic	
17	870276	2	Hand Grip, Flight/Depth Screw	

8500 SERIES SCREED PULL ARMS LH ASSEMBLY

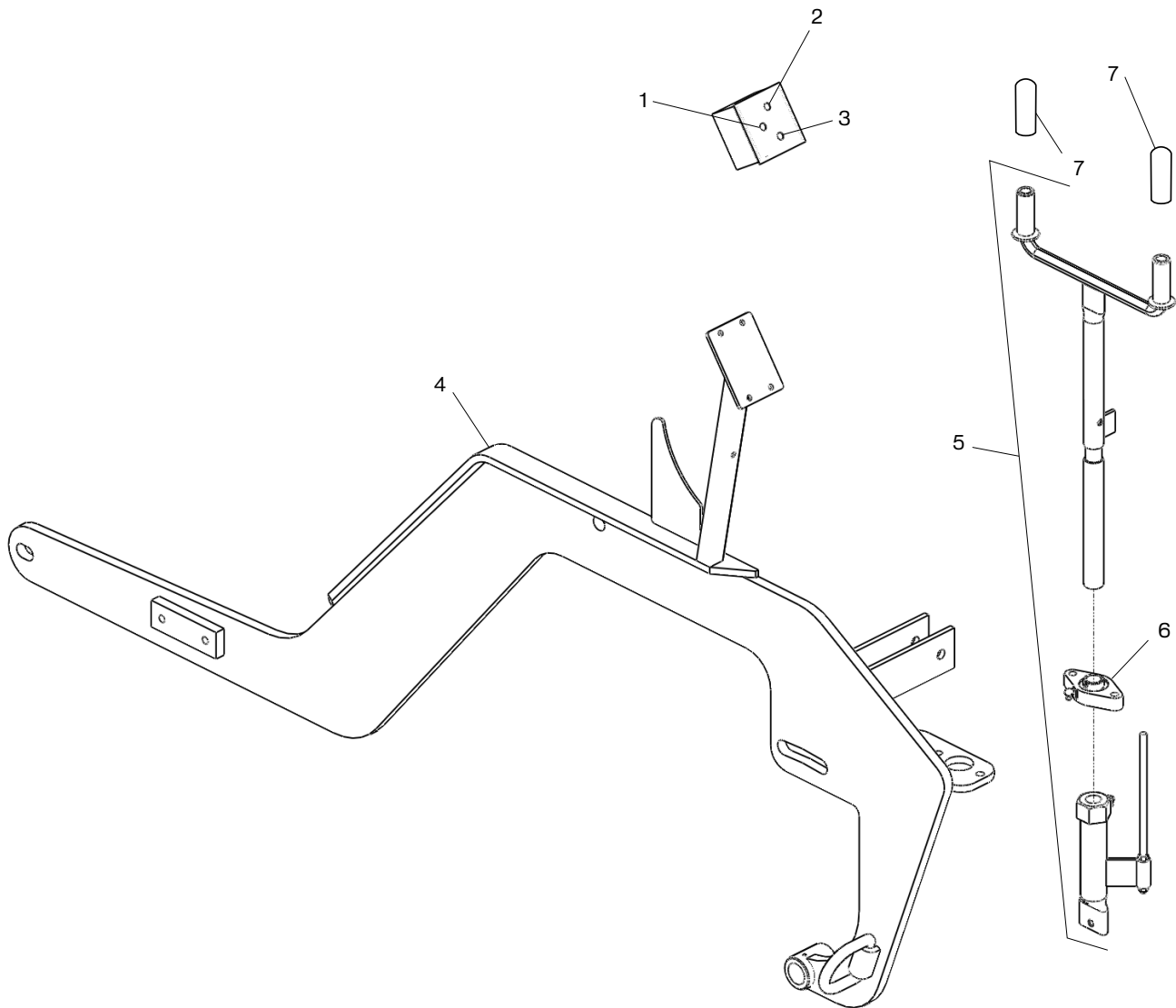


Figure 10-15

8500 Series Screed Pull Arms LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851393	1	Switch, Toggle	
2	900030	1	Switch, Toggle	
3	900030	1	Switch, Toggle	
4	984897	1	Assy, Screed Arm, 8515, LH	
5	1002729	1	Flight Screw Assembly	PN 851370 is same w/o height rod
6	870030	1	Bearing, Screed Flight Screw	
7	870276	2	Hand Grip, Flight/Depth Screw	

8500 SERIES SCREED PULL ARMS RH ASSEMBLY

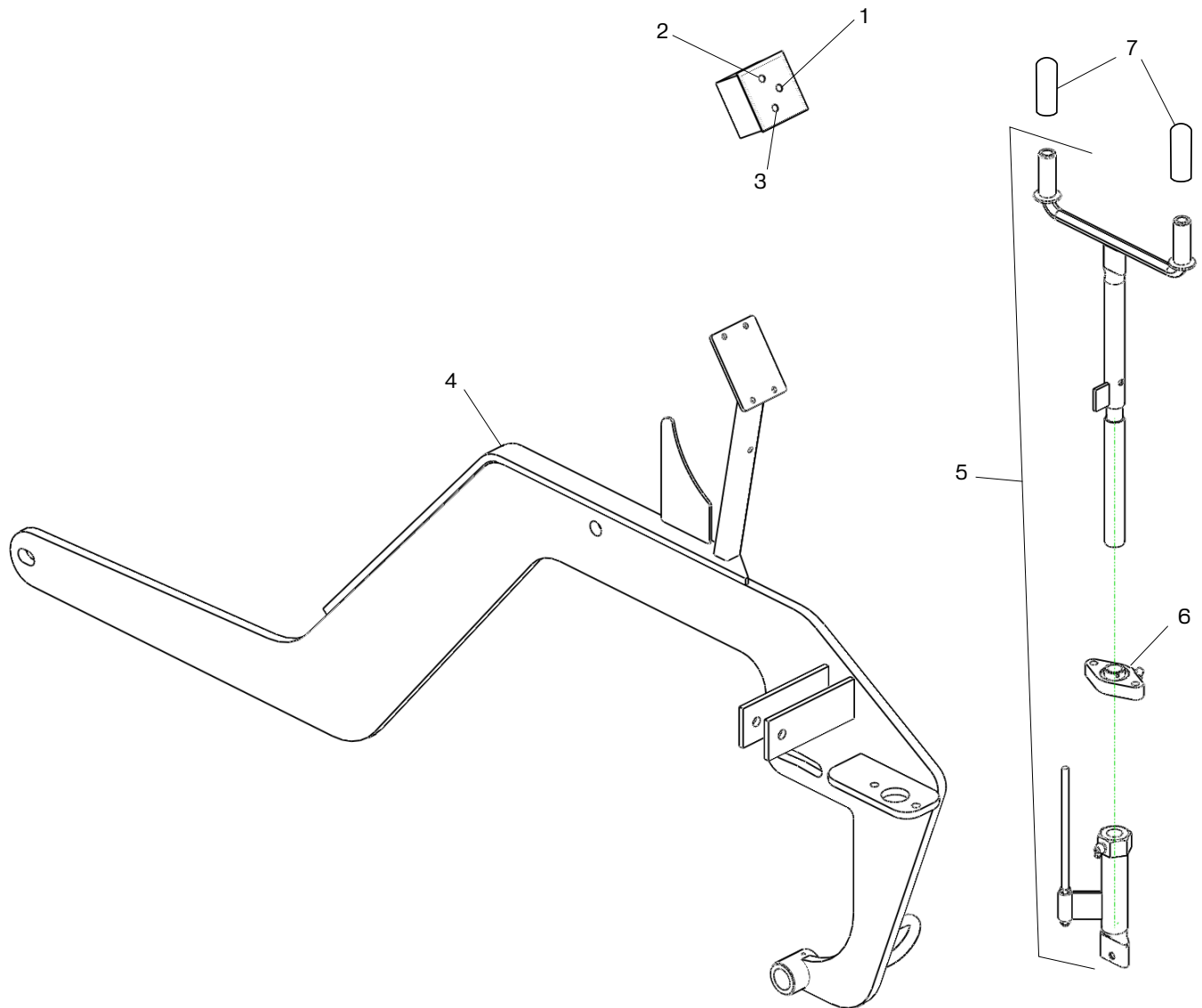


Figure 10-16

8500 Series Screed Pull Arms RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851393	1	Switch, Toggle	
2	900030	1	Switch, Toggle	
3	900030	1	Switch, Toggle	
4	984896SRV	1	Assy, Screed Arm, 8515, RH	
5	1002728	1	Flight Screw Assembly	PN 851370 is same w/o height rod
6	870030	1	Bearing, Screed Flight Screw	
7	870276	2	Hand Grip, Flight/Depth Screw	

8500 SERIES CITRUS TANK & HEAT CONTROL BOX

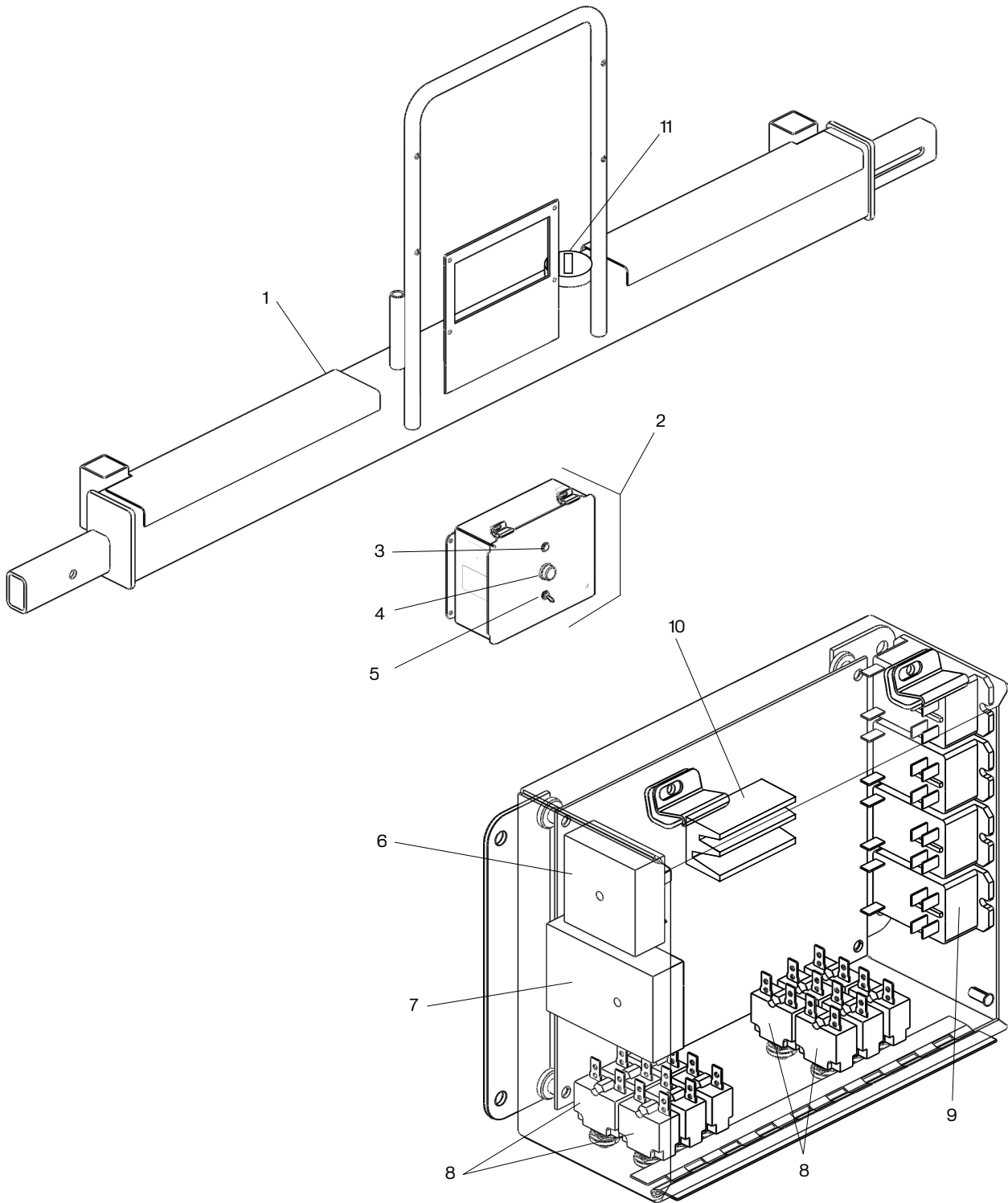


Figure 10-17

8500 Series Screed Citrus Tank and Heat Control Box Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987099SRV	1	Assy, Screed, Citrus, Tank Elec	Includes Item No. 11
2	985138	1	Assy, Electric Heat Control	
3	31983	1	Light, Red, Dash, .50 Hole	
4	982249	1	Switch, Push Button	
5	851391	1	Switch, Toggle, SPST, 2-POS	
6	985142	1	Timer, Elec	
7	988231	1	Relay, Time Delay, Off, 10 Amp	
8	985140	12	Breaker, 15 Amp	
9	985141	4	Relay, 12VDC, DPST ,25 AMP, N/O	
10	985138-04	1	Block, Terminal	
11	140030FL	1	Cap, Fuel Tank, Lockable	

8500 SERIES SCREED MISCELLANEOUS COMPONENTS

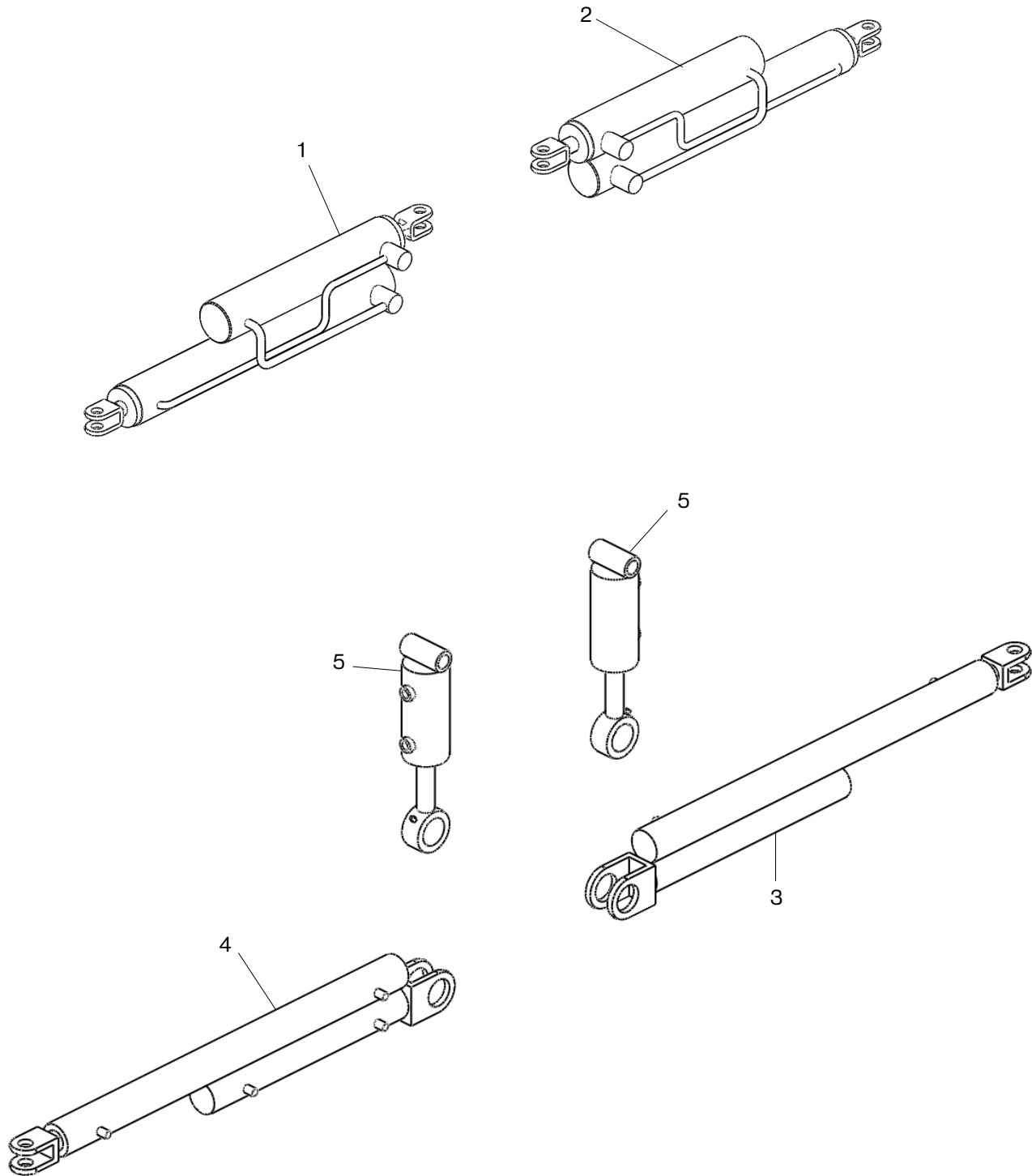


Figure 10-18

8500 Series Screed Miscellaneous Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851191	1	Cyl, Hyd, 2.00X12.00/30.00X1.25	LH
2	851192	1	Cyl, Hyd, 2.00X12.00/30.00X1.25	RH
3	981710R	1	Cyl, Hyd, 2.00X2.00X42.00X1.25	RH
4	981710L	1	Cyl, Hyd, 2.00X2.00X42.00X1.25	LH
5	983421	2	Cyl, Hyd, 2.75X2.00X1.125 Rod	

8816 SCREED OVERVIEW ASSEMBLY

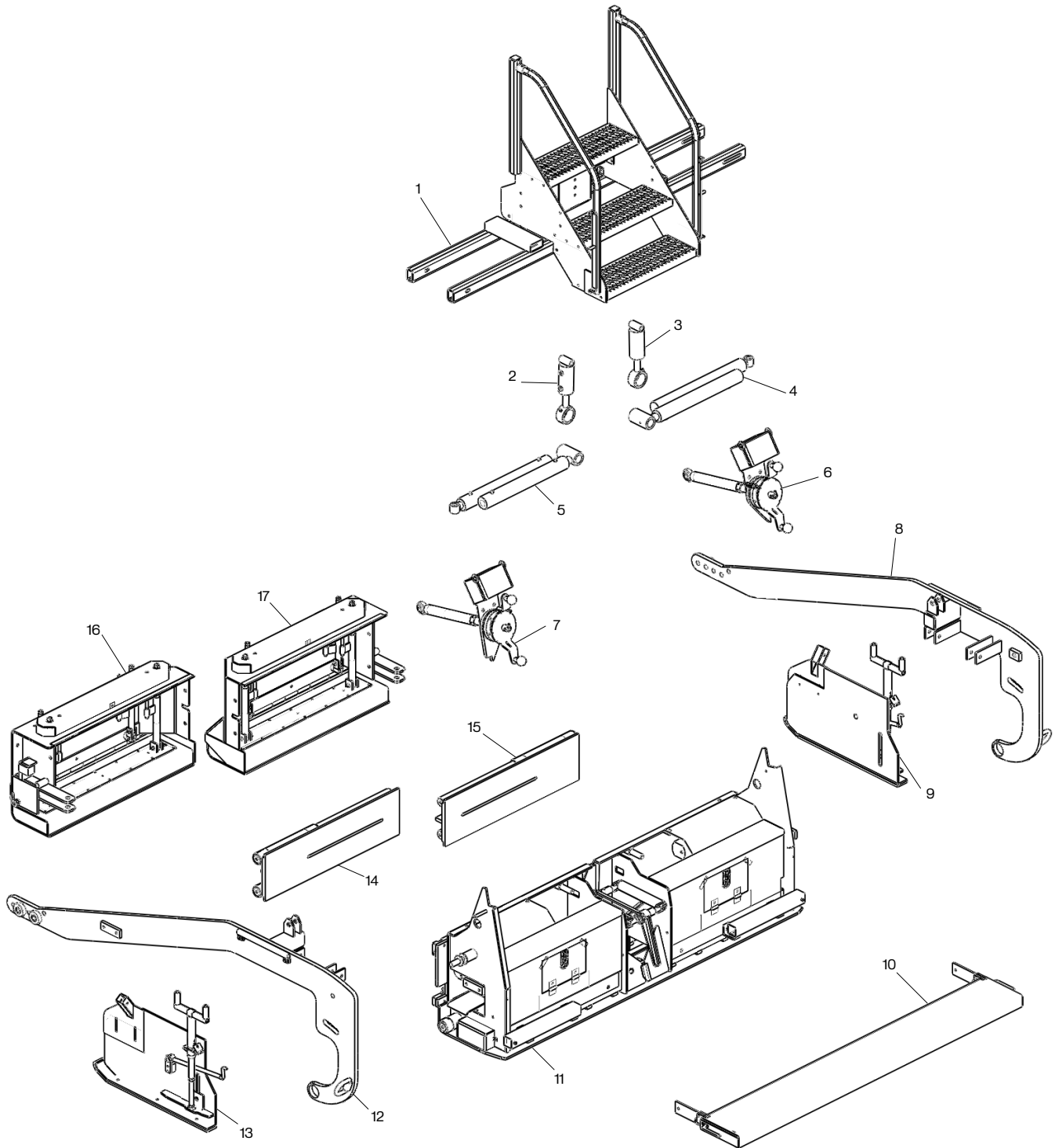


Figure 10-19

8816 Screed Overview Figure List

Item No.	Ref. Figure	Description	Remarks
1	10-30	8816 Screed Stairs and Electric Heat Control Box	
2	10-31	8816 Screed Miscellaneous Components	
3	10-31	8816 Screed Miscellaneous Components	
4	10-31	8816 Screed Miscellaneous Components	
5	10-31	8816 Screed Miscellaneous Components	
6	10-29	8816 Screed Flight Screw and Remote Control Box	
7	10-29	8816 Screed Flight Screw and Remote Control Box	
8	10-28	8816 Screed Pull Arm Assembly RH	
9	10-26	8816 Screed Endgate Assembly RH	
10	10-7	8816 Screed Walk Board Assembly	
11	10-20	8816 Screed Frame Assembly	
12	10-27	8816 Screed Pull Arm Assembly LH	
13	10-25	8816 Screed Endgate Assembly LH	
14	10-22	8816 Screed Slide Plate Assembly LH	
15	10-22	8816 Screed Slide Plate Assembly RH	
16	10-23	8816 Screed Extension Assembly RH	
17	10-24	8816 Screed Extension Assembly LH	
18	10-21	8816 Screed Vibrator Assembly LH	
19	10-21	8816 Screed Vibrator Assembly RH	

8816 SCREED FRAME ASSEMBLY

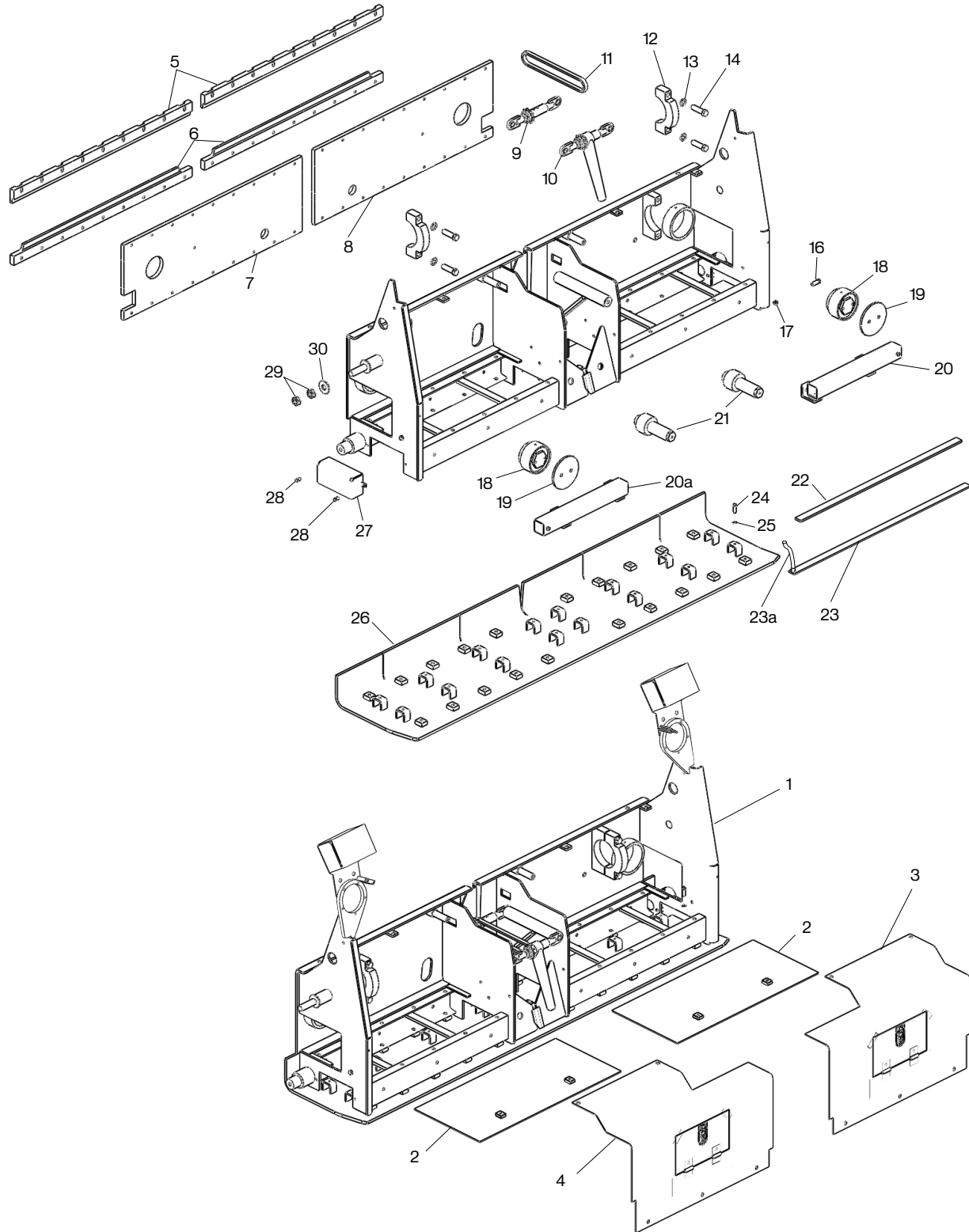


Figure 10-20

8816 Screed Frame Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985528	1	Screed Frame Assembly	
2	1002727	2	Cover, Element Lid	
3	985551	1	Assy, Screed Cover, RH	
4	985552	1	Assy, Screed Cover, LH	
5	1000953	2	Bar, Upper Ext Rail (Gray Iron)	
6	1000954	2	Bar, Lower Ext. Rail (Gray Iron)	
7	980243	1	Plate, Slide Mount	
8	980243	1	Plate, Slide Mount	
9	980182	1	Assy, Front Turnbuckle	
10	983157	1	Assy, Turnbuckle w/ Ratchet	
11	981020	1	Chain, #60H48	
12	980416	2	Clamp	
13	119-8	4	Washer, Flat, .750 SAE	
14	102-713-1A	4	CSHH, .750-10X3.00	
16	102-409-1A	2	CSHH, .500-13X2.00	
17	116-5	1	Nut, .500-13 Hex	
18	980232	2	Bar, Pivot	
19	980254	2	Cover Plate, Pivot	
20	981643R	1	Telspar, Assembly	
20a	981643L	1	Telspar, Assembly	
21	980256	2	Shaft, Cylinder Mount	
22	985121	2	Bar, .375x1.5x42	
23	987886SRV	2	Element, Heater, Screed, 46"	
23a	985699-03	2	Wiring, Element, Heater Pigtail	
24	80226	16	CSHH, .375-16X1.50	
25	80162	16	Washer, Lock, .375	
26	987936SRV	1	Plate Assembly, Main Wear, 8816 Electric	
27	985125	1	Cover, Elements, Screed Base	
28	102-203-1A	4	CSHH, .375-16X0.75	
29	115-10-1	4	Nut, 1.00-14 Hex Jam	
30	119-10	4	Washer, Flat, 1.00 SAE	

8816 SCREED VIBRATOR ASSEMBLY

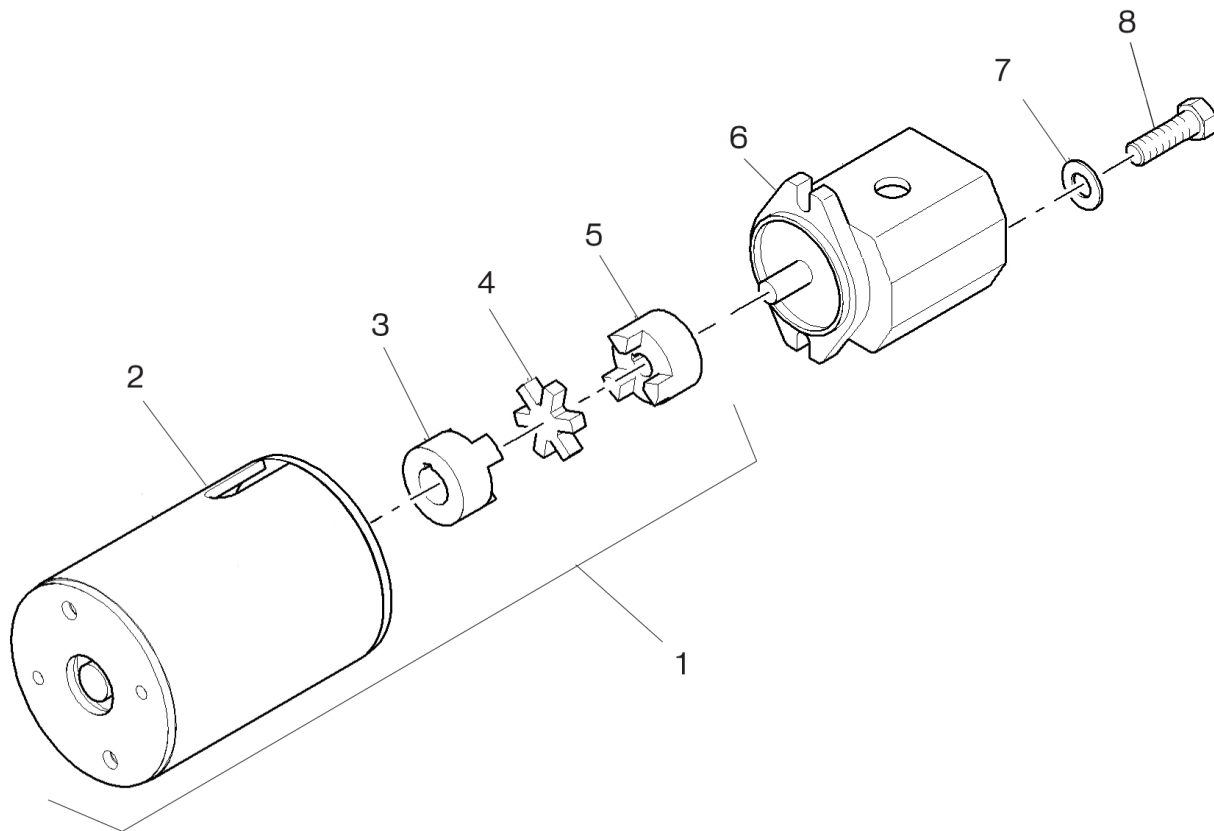


Figure 10-21

8816 Screed Vibrator Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002726	1	Vibrator Housing, w/o Motor	
2	855535	1	Vibrator	
3	880030	1	Coupling Half, 1", Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hydraulic Motor, Screed Vibrator	
7	118-7	2	Washer, Lock, .625 SAE	
8	102-609-1A	2	CSHH, .625-11X2.00	

8816 SCREED SLIDE PLATE

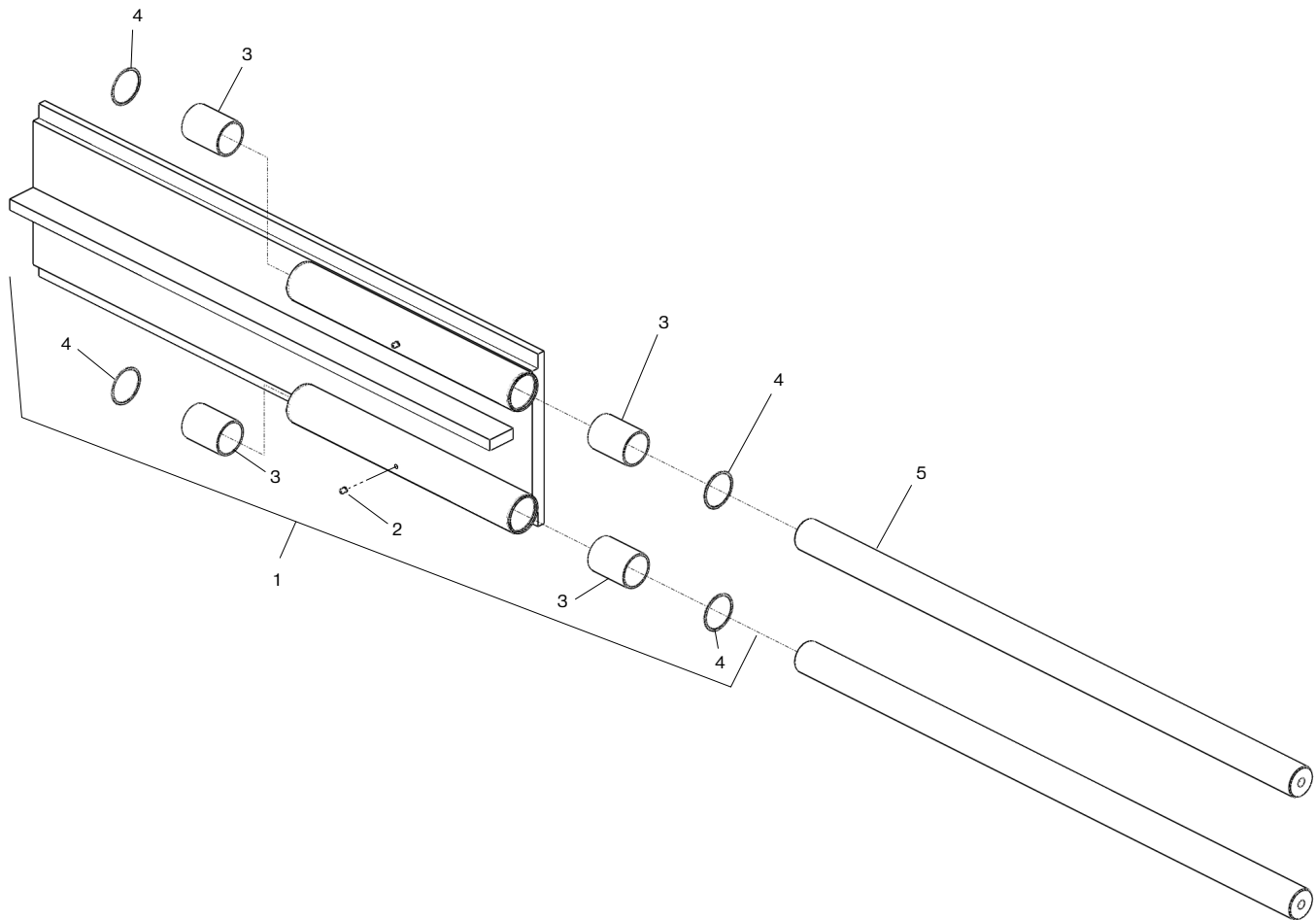


Figure 10-22

8816 Screed Slide Plate Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980225SRV	1	Slide Assembly, Extension	
2	900612	2	Grease Fitting, .250-20	
3	980360	4	Bushing, Fiber, Slide	
4	980380	4	Snap Ring	
5	980228	2	Chrome Rod, Extension	

8816 SCREED EXTENSION LH ASSEMBLY

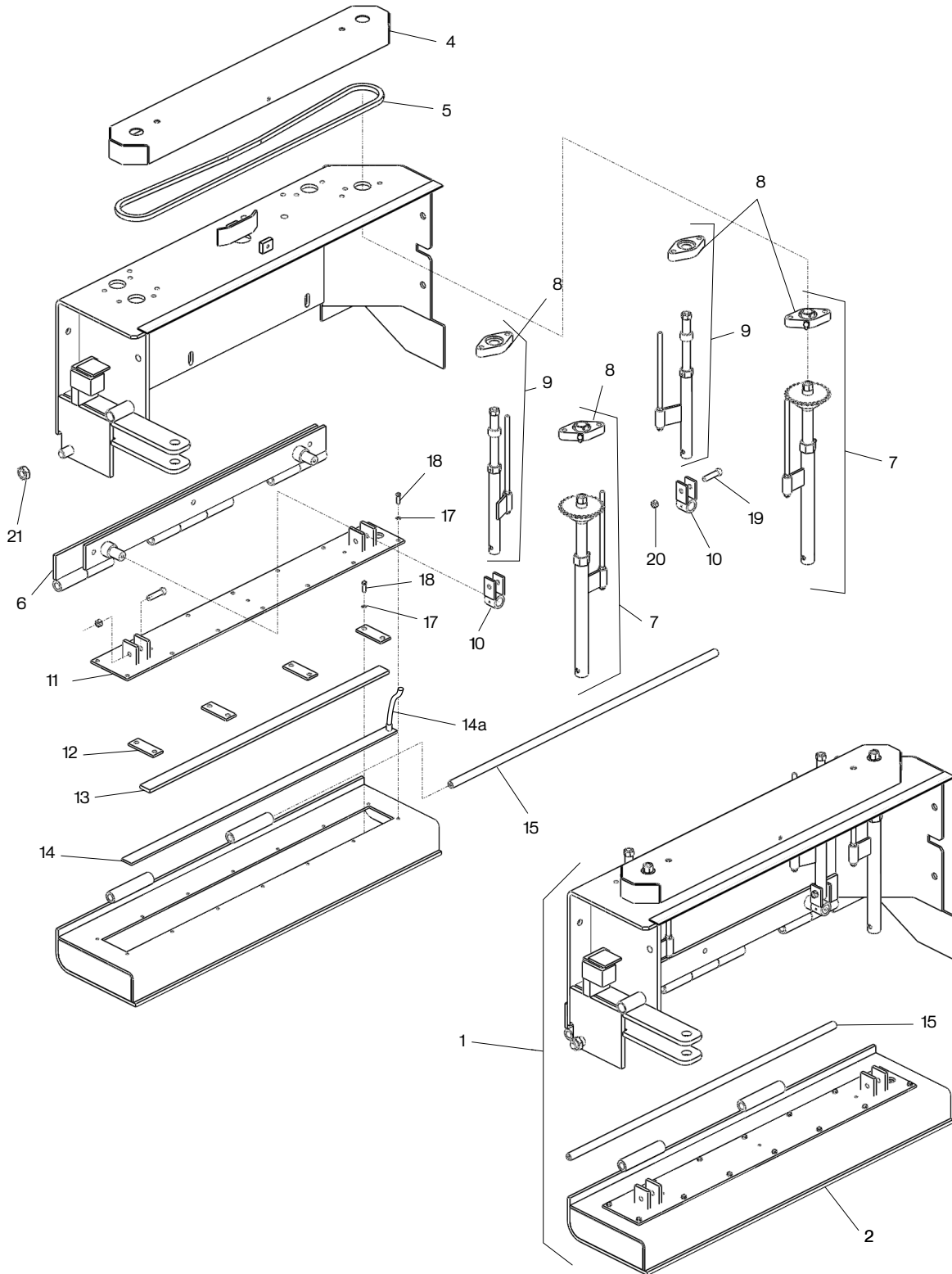


Figure 10-23

8816 Screed Extension LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985563	1	Insert, Screed Ext, Elec, 4 Adj	LH
2	985558LSRV	1	Extension Wear Plate, Electric	
4	985160	1	Cover, Extension	
5	981030	1	Chain, #40R164	
6	984576SRV	1	Assy, Front Ext Hinge, LH	
7	980261	2	Slide Adjuster Assy	
8	870030	4	Bearing, Screed Flight Screw	
9	981994	2	Slide, Adjuster Assy	
10	984580	2	Assy, Ext Slide Pivot	
11	1002725	1	Cover, Ext, Heat Box, LH	
12	985123	4	Clamp, Element, Screed Ext	
13	985120	1	Bar, .25x1.5x36	
14	987890SRV	1	Element, Heater, Screed, 40"	
14a	985699-03	1	Wiring, Element, Heater Pigtail	
15	980241	1	Bar, Extension Pin	
17	118-1	22	Washer, Lock, .250	
18	102-05-1A	22	CSHH, .250-20X1.0	
19	870279	4	CSSH, .375-16 Shldr Socket	
20	143-3	4	Nut, .375-16 Lock	

8816 SCREED EXTENSION RH ASSEMBLY

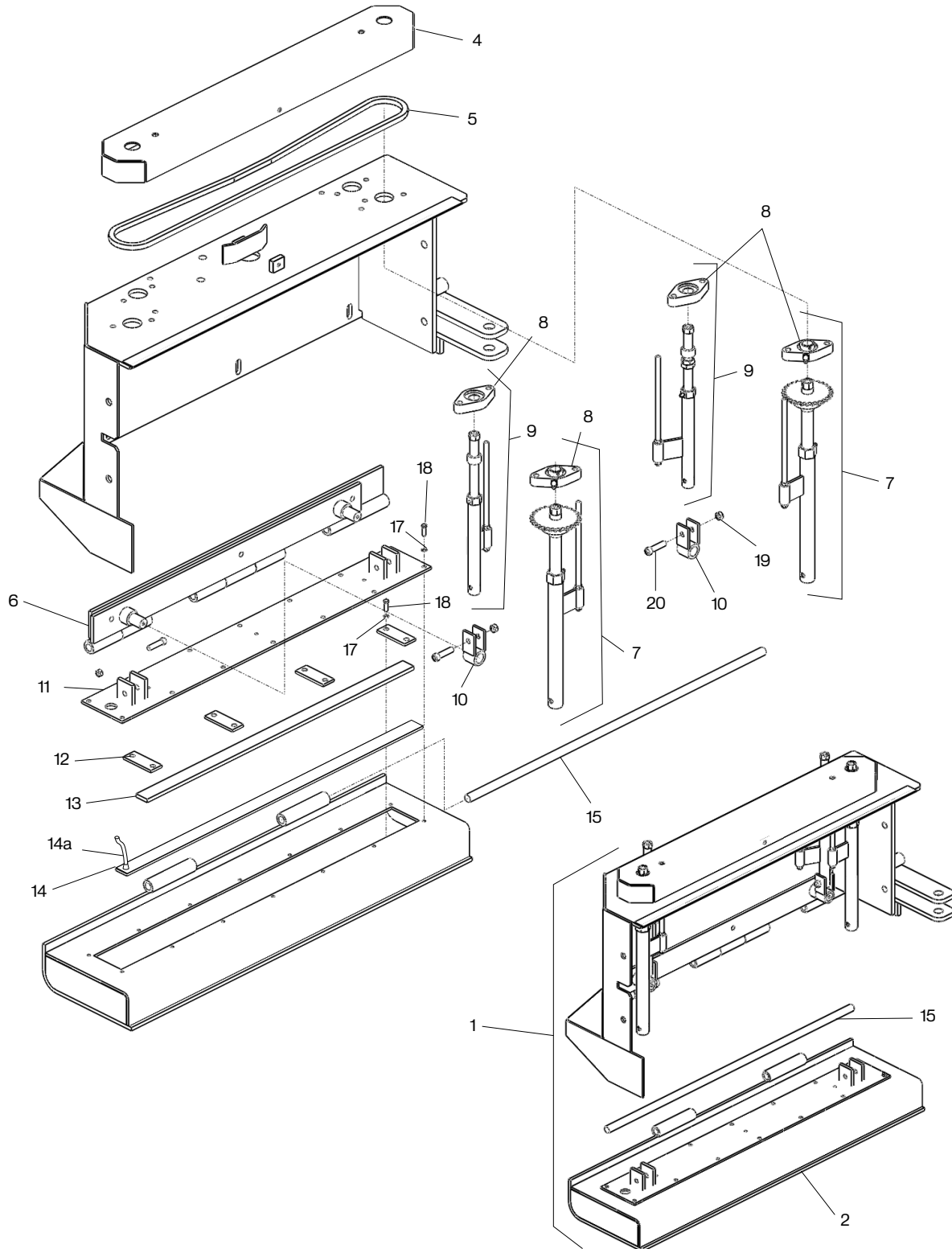


Figure 10-24

8816 Screed Extension RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985564	1	Insert, Screed Ext, Elec, 4 Adj	RH
2	985558RSRV	1	Extension Wear Plate, Electric	
4	985160	1	Cover, Extension	
5	981030	1	Chain, #40R164	
6	984577SRV	1	Assy, Front Ext Hinge, RH	
7	980261	2	Slide Adjuster Assy	
8	870030	4	Bearing, Screed Flight Screw	
9	981994	2	Slide, Adjuster Assy	
10	984580	2	Assy, Ext Slide Pivot	
11	1002724	1	Cover, Ext, Heat Box RH	
12	985123	4	Clamp, Element, Screed Ext	
13	985120	1	Bar, .25x1.5x36	
14	987890SRV	1	Element, Heater, Screed, 40"	
14a	985699-03	1	Wiring, Element, Heater Pigtail	
15	980241	1	Bar, Extension Pin	
17	118-1	22	Washer, Lock, .250	
18	102-05-1A	22	CSHH, .250-20X1.0	
19	870279	4	CSSH, .375-16 Shldr Socket	
20	143-3	4	Nut, .375-16 Lock	

8816 SCREED ENDGATE LH ASSEMBLY

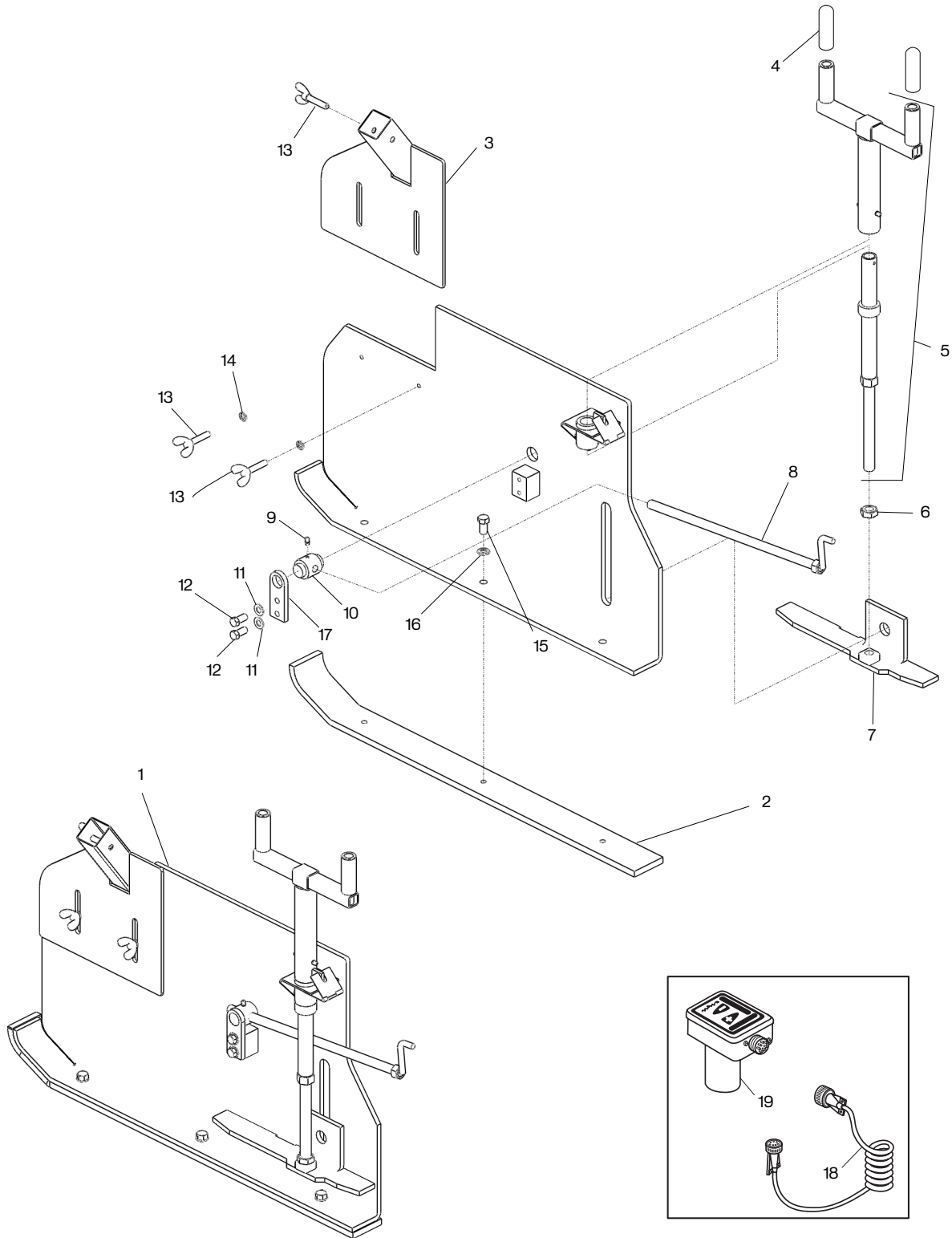


Figure 10-25

8816 Screed Endgate LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985863	1	Assy, LH, End Gate, 8"	
2	980466	1	Bottom Bar, End Gate	
3	984287SRV	1	Bracket, Sonic Mount	
4	870276	2	Hand Grip, Flight/Depth Screw	
5	983515SRV	1	Screw Assy, Depth	
6	116-8-1	1	Nut, .750-10 UNC Hex Jam	
7	1002723	1	Bottom Bracket, LH Screw	
8	981099SRV	1	Tilt Screw	
9	140610	1	Grease Fitting, .250-28	
10	980457	1	Shaft, Tilt Screw Swivel	
11	119-4	2	Washer, Flat, .437 SAE	
12	102-305-1A	2	CSHH, .437-14X1.00	
13	920070	3	Wing Bolt, .375-11X2.0	
14	930019	3	Washer, Flat, .375 SAE	
15	102-405-1A	3	CSHH, .500-13X1.00	
16	118-5	3	Washer, Lock, .500	
17	980458	1	Bar, Tilt Screw Hold-down	
18	980550	1	Coil Cord, 1.5 to 7.5 ft	
19	980540	1	Sensor, Ultra Sonic	

8816 SCREED ENDGATE RH ASSEMBLY

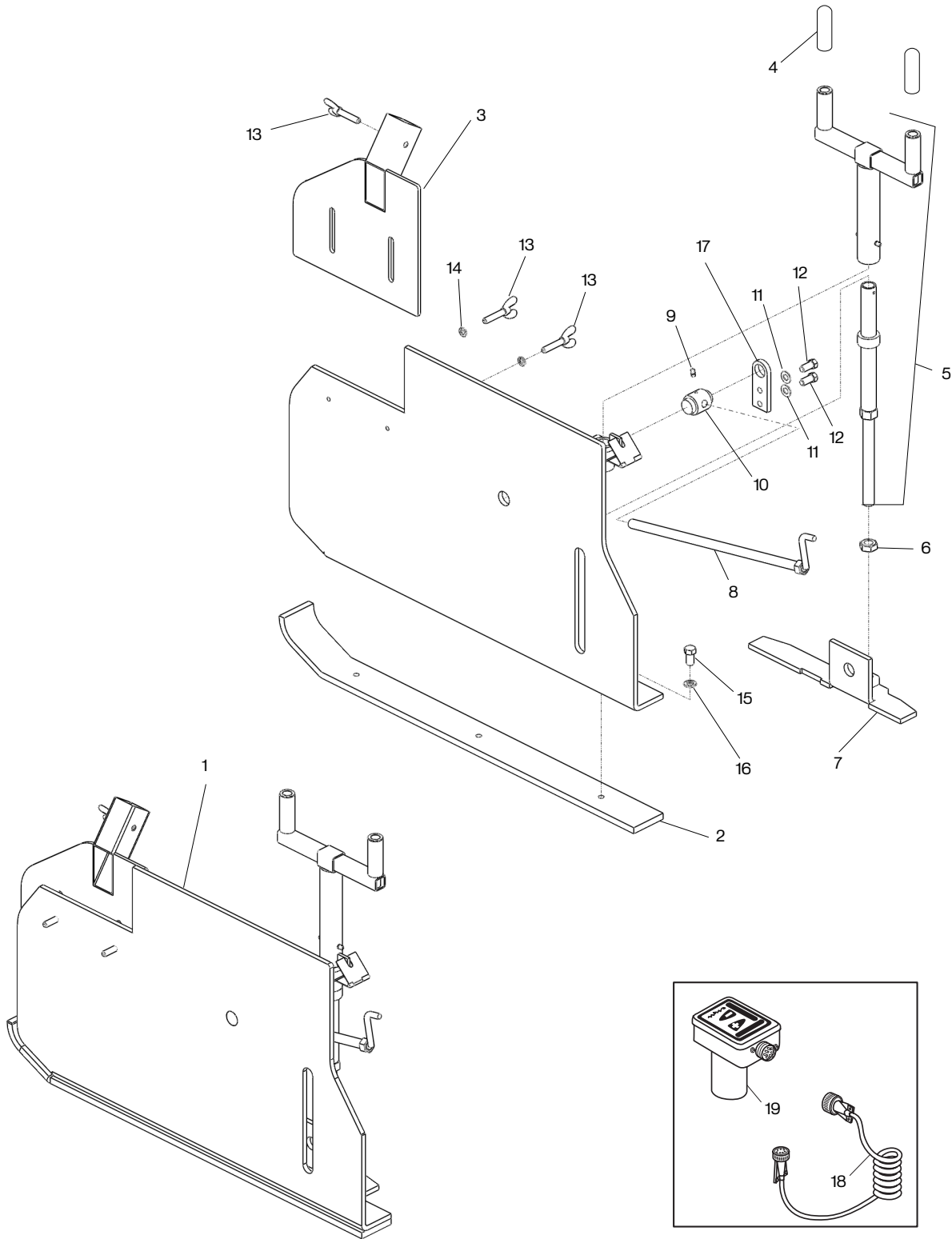


Figure 10-26

8816 Screed Endgate RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985862	1	Assy, RH, End Gate, 8"	
2	980466	1	Bottom Bar, End Gate	
3	984288	1	Bracket, Sonic Mount RH	
4	870276	2	Hand Grip, Flight/Depth Screw	
5	983515SRV	1	Screw Assy, Depth	
6	116-8-1	1	Nut, .750-10 UNC Hex Jam	
7	1002722	1	Bottom Bracket, LH Screw	
8	981099SRV	1	Tilt Screw	
9	140610	1	Grease Fitting, .250-28	
10	980457	1	Shaft, Tilt Screw Swivel	
11	119-4	2	Washer, Flat, .437 SAE	
12	102-305-1A	2	CSHH, .437-14X1.00	
13	920070	3	Wing Bolt, .375-11X2.0	
14	930019	3	Washer, Flat, .375 SAE	
15	102-405-1A	3	CSHH, .500-13X1.00	
16	118-5	3	Washer, Lock, .500	
17	980458	1	Bar, Tilt Screw Hold-down	
18	980550	1	Coil Cord, 1.5 to 7.5 ft	
19	980540	1	Sensor, Ultra Sonic	

8816 SCREED PULL ARM LH ASSEMBLY

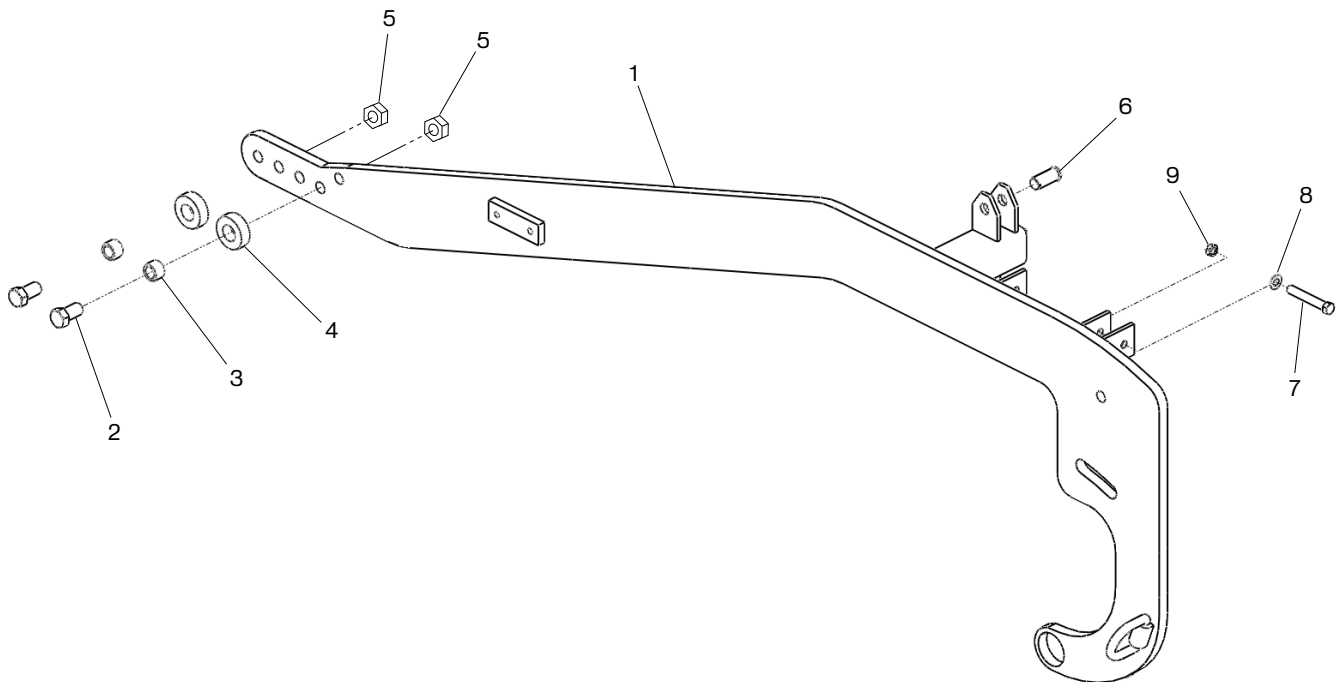


Figure 10-27

8816 Screed Pull Arm LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980393L	1	Screed Arm, LH	
2	102-911-1A	2	CSHH, 1.00-8X2.50, GR5	
3	980441	2	Bushing, Arm Inner Roller	
4	980439	2	Bushing, Screed Arm	
5	80045	2	Nut, 1.00-8, GR5 Hex	
6	240030	1	Pin, Clevis, 1.00X3.25 W/1.5HD	
7	102-619-1A	2	CSHH, .625-11X4.50	
8	119-7	2	Washer, Flat, .625 SAE	
9	116-7	2	Nut, .625-11 Hex	

8816 SCREED PULL ARM RH ASSEMBLY

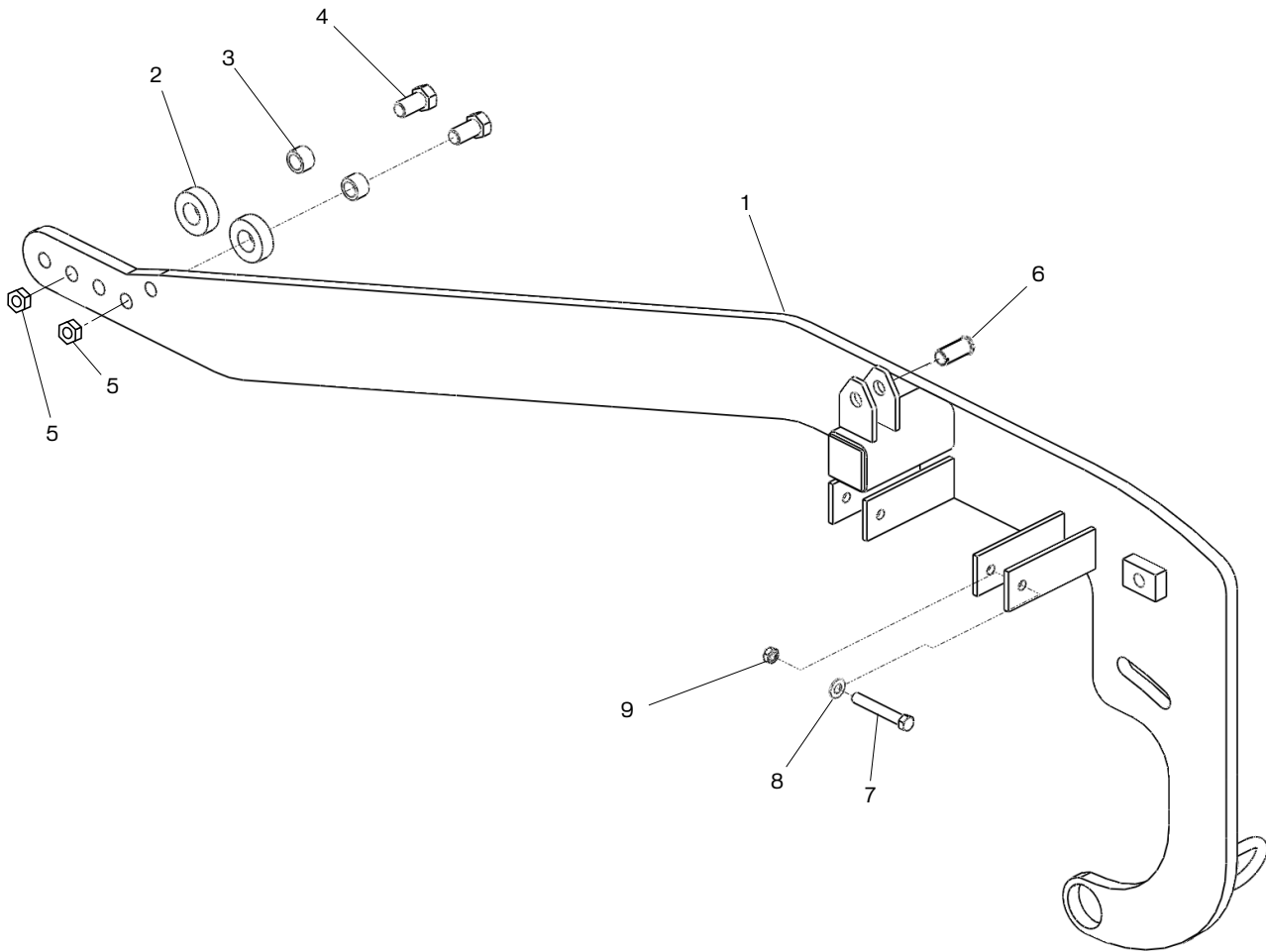


Figure 10-28

8816 Screed Pull Arm RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980393R	1	Screed Arm, RH	
2	980439	2	Bushing, Screed Arm	
3	980441	2	Bushing, Arm Inner Roller	
4	102-911-1A	2	CSHH, 1.00-8X2.50, GR5	
5	80045	2	Nut, 1.00-8, GR5 Hex	
6	240030	1	Pin, Clevis, 1.00X3.25 W/1.5HD	
7	102-619-1A	2	CSHH, .625-11X4.50	
8	119-7	2	Washer, Flat, .625 SAE	
9	116-7	2	Nut, .625-11 Hex	

8816 SCREED FLIGHT SCREW AND CONTROL BOX

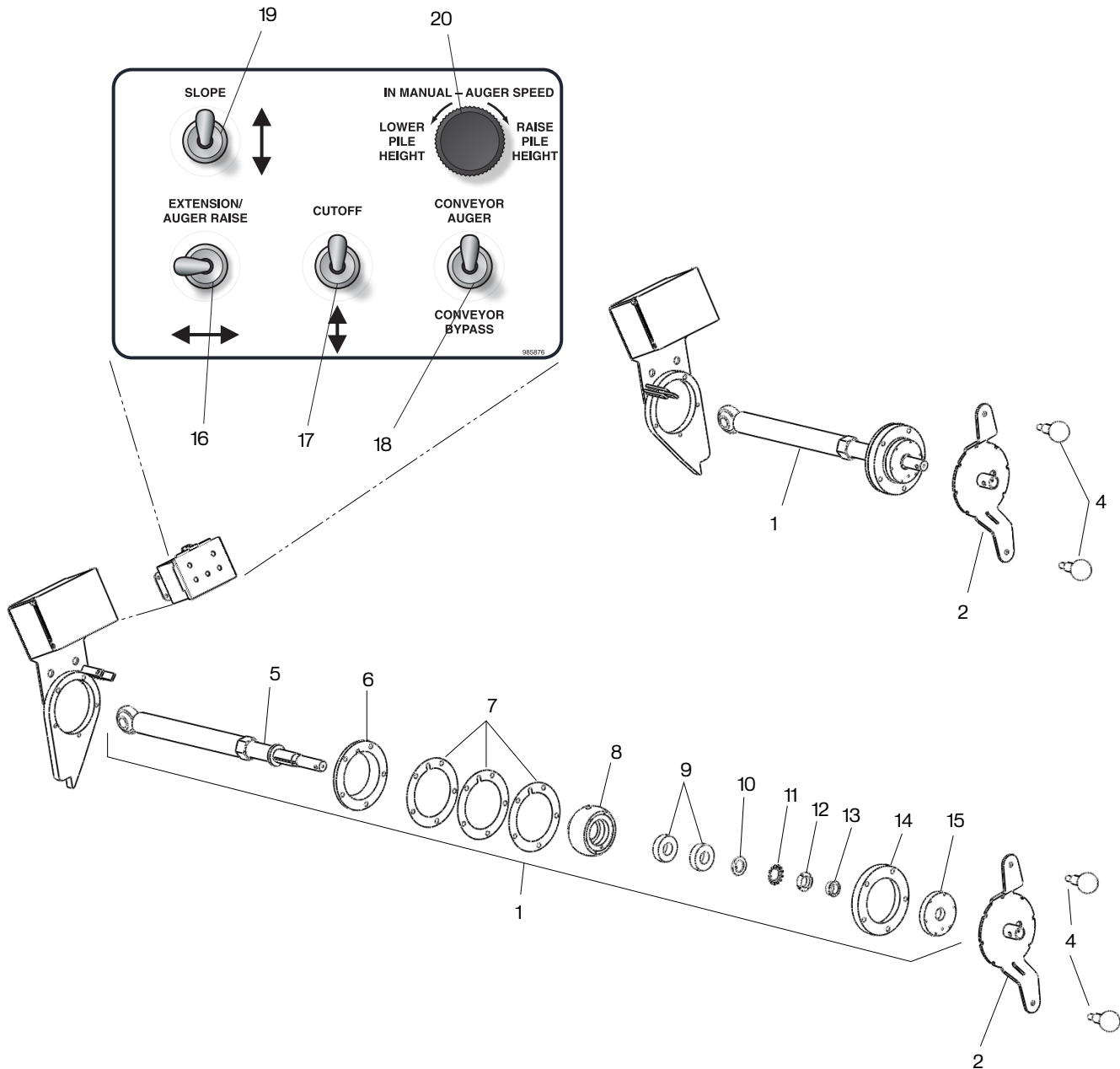


Figure 10-29

8816 Screed Flight Screw and Control Box Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002721	1	Assy, Flight Screw	
2	1002720	1	Handle, Flight Screw	
4	981574	1	Knob, Revolving Ball	
5	1002719	1	Kit, Lower Flight Screw Assembly	
6	981331	1	Bar, Bottom Flight Mount	
7	982583	3	Plastic Shim Stock	
8	981328	1	Bearing, Flight Screw Pivot	
9	981451-04	2	Bearing, Thrust	
10	981451-03	1	Washer, Tongued	
11	981451-02	1	Washer, Lock, Bearing	
12	981451-01	1	Locknut, Spanner	
13	981328-2	1	Bushing, Flight Screw	
14	981332	1	Bar, Top Flight Mount	
15	981328-1	1	Bearing, Housing Cover	
16	900030	1	Switch, Toggle	
17	900030	1	Switch, Toggle	
18	900030	1	Switch, Toggle	
19	851393	1	Switch, Toggle	
20	980640-01	1	Potentiometer	

8816 SCREED STAIRS AND HEAT CONTROL BOX

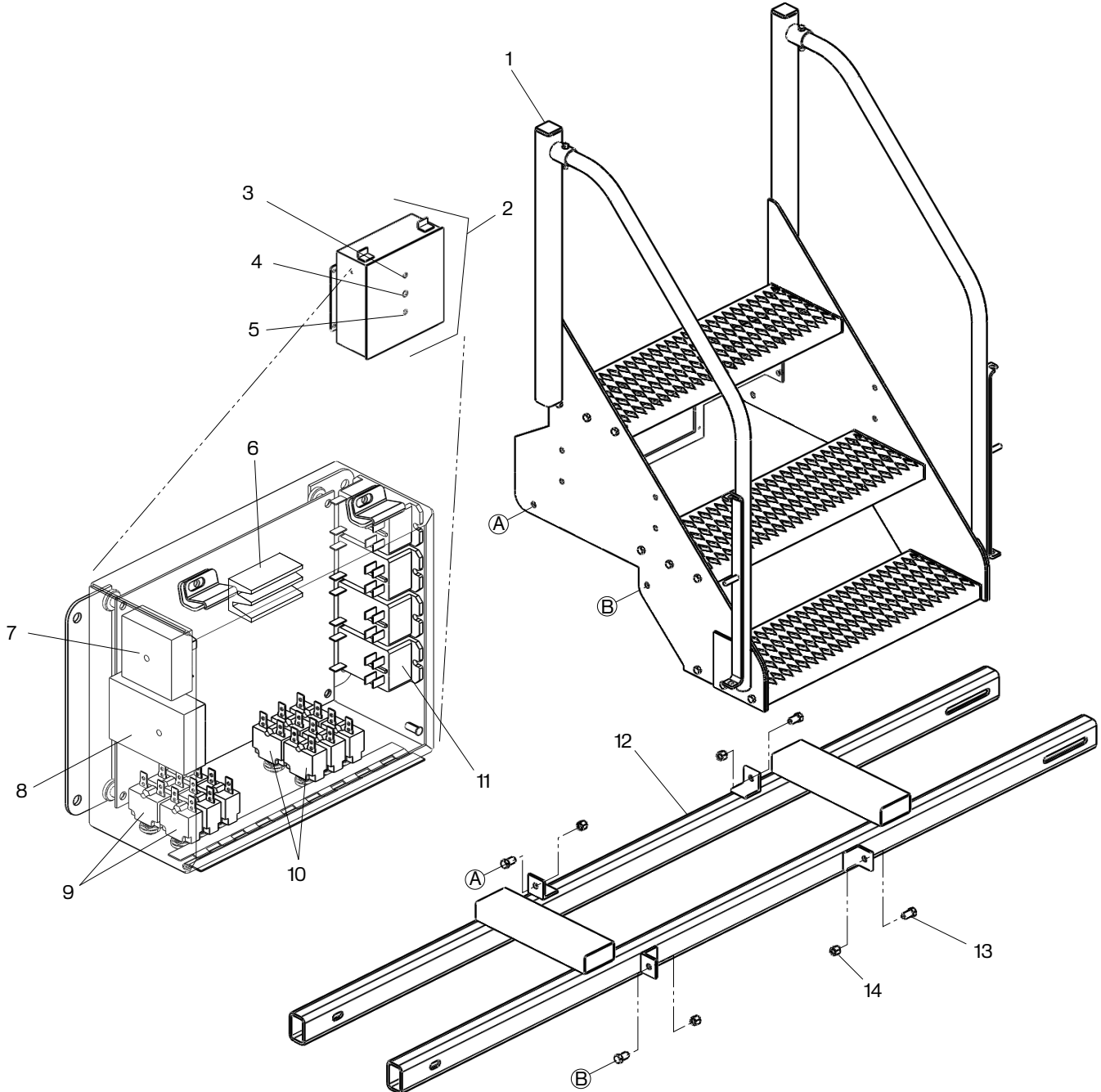


Figure 10-30

8816 Screed Stairs and Heat Control Box Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002718	1	Assy, Stairs	
2	985138	1	Assy, Electric Heat Control	
3	31983	1	Light, Red, Dash, .50 Hole	
4	982249	1	Switch, Push Button	
5	851391	1	Switch, Toggle, SPST, 2-POS	
6	985138-04	1	Block, Terminal	
7	985142	1	Timer, Elec	
8	988231	1	Relay, Time Delay, Off, 10 Amp	
9	985140	6	Breaker, 15 Amp	
10	985140	6	Breaker, 15 Amp	
11	985141	4	Relay, 12VDC, DPST ,25 AMP, N/O	
12	1002717	1	Stairs, Lateral Support Tube Assy	
13	102-405-1A	4	CSHH, .500-13X1.00	
14	116-5	4	Nut, .500-13 Hex	

8816 SCREED MISCELLANEOUS COMPONENTS

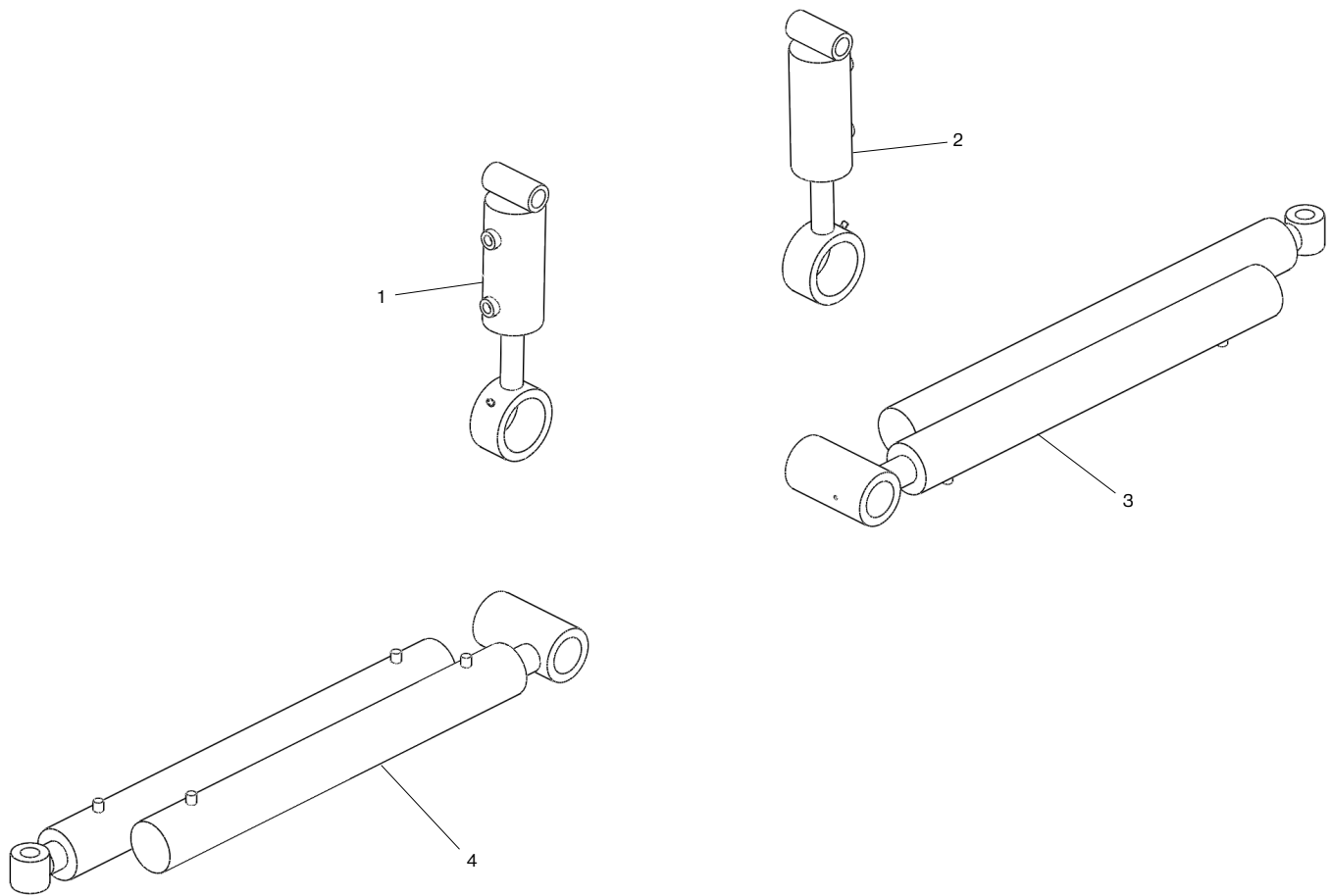


Figure 10-31

8816 Screed Miscellaneous Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980420	1	Cyl, Hyd, Screed Slope, 8816	
2	980420	1	Cyl, Hyd, Screed Slope, 8816	
3	981050	1	Cyl, Hyd, Screed Ext, RH, 8816	
4	980430	1	Cyl, Hyd, Screed Ext, LH, 8816	

ALPHABETICAL PARTS INDEX

Description	Part Number	Figure Number	Item Number
Adjuster Mount	1002715	10-11	8
Adjuster Mount	1002715	10-12	8
Assy, Adjusting Swivel Nut	890070	10-13	11
Assy, Adjusting Swivel Nut	890070	10-14	11
Assy, Electric Heat Control	985138	10-17	2
Assy, Electric Heat Control	985138	10-30	2
Assy, Ext Slide Pivot	984580	10-23	10
Assy, Ext Slide Pivot	984580	10-24	10
Assy, Flight Screw	1002721	10-29	1
Assy, Front Ext Hinge, LH	984576SRV	10-23	6
Assy, Front Ext Hinge, RH	984577SRV	10-24	6
Assy, Front Turnbuckle	980182	10-20	9
Assy, Heat Box Cover, 4 Adj	988292	10-11	14
Assy, Heat Box Cover, 4 Adj	988292	10-12	14
Assy, Heat Box Cover, Single Adj	988291	10-9	12
Assy, Heat Box Cover, Single Adj	988291	10-10	12
Assy, Heat Box, Elec, 4 Adjust	988319SRV	10-11	2
Assy, Heat Box, Elec, 4 Adjust	988319SRV	10-12	2
Assy, Heat Box, Elec, Single Adj	987872SRV	10-9	2
Assy, Heat Box, Elec, Single Adj	987872SRV	10-10	2
Assy, Insert, Elec, LH	984305-1	10-11	1a
Assy, Insert, Elec, RH, 4	984306-1	10-12	1a
Assy, Insert, Electric, 8500, LH	985561SRV	10-9	1
Assy, Insert, Electric, 8500, RH	985562SRV	10-10	1
Assy, Insert, Slope, Elec, LH	984305	10-11	1
Assy, Insert, Slope, Elec, RH	984306SRV	10-12	1
Assy, LH, End Gate, 8"	985863	10-25	1
Assy, RH, End Gate, 8"	985862	10-26	1
Assy, Screed Arm, 8515, LH	984897	10-15	4
Assy, Screed Arm, 8515, RH	984896SRV	10-16	4
Assy, Screed Cover, LH	985552	10-20	4
Assy, Screed Cover, RH	985551	10-20	3
Assy, Screed, Citrus, Tank Elec	987099SRV	10-17	1
Assy, Slide Adjust	985556	10-11	4
Assy, Slide Adjust	985556	10-12	4
Assy, Stairs	1002718	10-30	1
Assy, Turnbuckle w/ Ratchet	983157	10-20	10
Assy, Vibrator LH	982965L	10-5	1

Description	Part Number	Figure Number	Item Number
Assy, Vibrator RH	982965RSRV	10-6	1
Assy, Walk Board	987056	10-7	1
Bar Jack, Screed Slide	988556	10-3	12
Bar, .125x2.00x44.50, Notches	855562	10-3	13
Bar, .25x1.5x36	985120	10-9	10
Bar, .25x1.5x36	985120	10-10	10
Bar, .25x1.5x36	985120	10-11	12
Bar, .25x1.5x36	985120	10-12	12
Bar, .25x1.5x36	985120	10-23	13
Bar, .25x1.5x36	985120	10-24	13
Bar, .375x1.5x42	985121	10-3	8
Bar, .375x1.5x42	985121	10-4	11
Bar, .375x1.5x42	985121	10-20	22
Bar, Bottom Flight Mount	981331	10-29	6
Bar, Bottom Rail	981658	10-4	16
Bar, End Gate Skid 8515	982963	10-13	7
Bar, Extension Pin	980241	10-23	15
Bar, Extension Pin	980241	10-24	15
Bar, Lower Ext. Rail (Gray Iron)	1000954	10-20	6
Bar, Pivot	981659	10-4	8
Bar, Pivot	980232	10-20	18
Bar, Tilt Screw Hold-down	980458	10-25	17
Bar, Tilt Screw Hold-down	980458	10-26	17
Bar, Top Flight Mount	981332	10-29	14
Bar, Top Rail	981657	10-4	17
Bar, Upper Ext Rail (Gray Iron)	1000953	10-20	5
Bearing, Flight Screw Pivot	981328	10-29	8
Bearing, Housing Cover	981328-1	10-29	15
Bearing, Screed Flight Screw	870030	10-9	5
Bearing, Screed Flight Screw	870030	10-10	5
Bearing, Screed Flight Screw	870030	10-11	5
Bearing, Screed Flight Screw	870030	10-12	5
Bearing, Screed Flight Screw	870030	10-15	6
Bearing, Screed Flight Screw	870030	10-16	6
Bearing, Screed Flight Screw	870030	10-23	8
Bearing, Screed Flight Screw	870030	10-24	8
Bearing, Thrust	981451-04	10-29	9
Block, Terminal	985138-04	10-17	10
Block, Terminal	985138-04	10-30	6
Bottom Bar, End Gate	980466	10-25	2

Illustrated Parts List (IPL)



Description	Part Number	Figure Number	Item Number
Bottom Bar, End Gate	980466	10-26	2
Bottom Bracket, LH Screw	1002723	10-25	7
Bottom Bracket, LH Screw	1002722	10-26	7
Bottom Rail, 8500 Screed Ext	855783	10-3	10
Bracket, Depth Screw Control LH	890132LSRV	10-13	6
Bracket, Depth Screw Control RH	890132RSRV	10-14	6
Bracket, Sonic Mount	984287SRV	10-25	3
Bracket, Sonic Mount RH	984288	10-26	3
Breaker, 15 Amp	985140	10-17	8
Breaker, 15 Amp	985140	10-30	9
Breaker, 15 Amp	985140	10-30	10
Bushing	988588	10-8	4
Bushing, Arm Inner Roller	980441	10-27	3
Bushing, Arm Inner Roller	980441	10-28	3
Bushing, Fiber, Slide	980360	10-22	3
Bushing, Flight Screw	981328-2	10-29	13
Bushing, Screed Arm	980439	10-27	4
Bushing, Screed Arm	980439	10-28	2
Cable, Power, Ultrasonic	982796	10-14	13
Cable, Sonic Sensor Straight	983271	10-13	13
Cap, Fuel Tank, Lockable	140030FL	10-17	11
Chain, #40R164	981030	10-23	5
Chain, #40R164	981030	10-24	5
Chain, #60H48	981020	10-20	11
Chain, Roller, 40x52 Pitch	870190	10-3	4
Chain, Roller, 40x52 Pitch	870190	10-4	4
Chrome Rod	988601	10-8	6
Chrome Rod, Extension	980228	10-22	5
Clamp	980416	10-20	12
Clamp, Element, Screed Ext	985123	10-9	11
Clamp, Element, Screed Ext	985123	10-10	11
Clamp, Element, Screed Ext	985123	10-11	13
Clamp, Element, Screed Ext	985123	10-12	13
Clamp, Element, Screed Ext	985123	10-23	12
Clamp, Element, Screed Ext	985123	10-24	12
Coil Cord, 1.5 to 7.5 ft	980550	10-25	18
Coil Cord, 1.5 to 7.5 ft	980550	10-26	18
Coil Cord, 6s/6s 1.5 to 7.5 ft	983050	10-14	15
Coupling Half, 1", Vibrator Shaft	880030	10-5	3
Coupling Half, 1", Vibrator Shaft	880030	10-6	3

Description	Part Number	Figure Number	Item Number
Coupling Half, 1", Vibrator Shaft	880030	10-21	3
Coupling Half, Tack Pump Motor	280030	10-5	5
Coupling Half, Tack Pump Motor	280030	10-6	5
Coupling Half, Tack Pump Motor	280030	10-21	5
Cover Plate, Pivot	980254	10-20	19
Cover, Element Lid	1002727	10-20	2
Cover, Elements, Screed Base	985124	10-3	6
Cover, Elements, Screed Base	985124	10-4	7
Cover, Elements, Screed Base	985125	10-20	27
Cover, Ext, Heat Box RH	1002724	10-24	11
Cover, Ext, Heat Box, LH	1002725	10-23	11
Cover, Extension	985160	10-23	4
Cover, Extension	985160	10-24	4
Cover, Screed Elements	985149	10-4	18
Cover, Screed LH Ext Cyl	851204SRV	10-3	15
Cover, Screed Plate Access	851201SRV	10-3	14
Cover, Screed RH Ext Cyl	851203	10-3	16
Crown & Valley Assy, Front	870172	10-3	3
Crown & Valley Assy, Front	870172	10-4	3
Crown & Valley Assy, Rear	870182	10-3	2
Crown & Valley Assy, Rear	870182	10-4	2
CSHH, .250-20X1.0	80185	10-11	19
CSHH, .250-20X1.0	80185	10-12	19
CSHH, .250-20X1.0	102-05-1A	10-23	18
CSHH, .250-20X1.0	102-05-1A	10-24	18
CSHH, .375-16X0.75	102-203-1A	10-20	28
CSHH, .375-16X1.50	80226	10-20	24
CSHH, .375-16X2.00	80230	10-11	16
CSHH, .375-16X2.00	80230	10-12	16
CSHH, .375-24X1.00, GR8	81068	10-9	14
CSHH, .375-24X1.00, GR8	81068	10-10	14
CSHH, .437-14X1.00	102-305-1A	10-25	12
CSHH, .437-14X1.00	102-305-1A	10-26	12
CSHH, .437-14X1.25, GR5	860048	10-9	17
CSHH, .437-14X1.25, GR5	860048	10-10	17
CSHH, .500-13X0.75	80840	10-13	10
CSHH, .500-13X0.75	80840	10-14	10
CSHH, .500-13X1.00	102-405-1A	10-25	15
CSHH, .500-13X1.00	102-405-1A	10-26	15
CSHH, .500-13X1.00	102-405-1A	10-30	13

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Description	Part Number	Figure Number	Item Number
CSHH, .500-13X2.00	102-409-1A	10-20	16
CSHH, .625-11X2.00	102-609-1A	10-21	8
CSHH, .625-11X4.50	102-619-1A	10-27	7
CSHH, .625-11X4.50	102-619-1A	10-28	7
CSHH, .750-10X3.00	102-713-1A	10-20	14
CSHH, .875-9X2.00, GR5	102-809-1A	10-13	5
CSHH, .875-9X2.00, GR5	102-809-1A	10-14	5
CSHH, 1.00-8X2.50, GR5	102-911-1A	10-27	2
CSHH, 1.00-8X2.50, GR5	102-911-1A	10-28	4
CSSH, .375-16 Shldr Socket	870279	10-9	6
CSSH, .375-16 Shldr Socket	870279	10-10	6
CSSH, .375-16 Shldr Socket	870279	10-11	7
CSSH, .375-16 Shldr Socket	870279	10-12	7
CSSH, .375-16 Shldr Socket	870279	10-23	19
CSSH, .375-16 Shldr Socket	870279	10-24	19
Cyl, Hyd, 2.00X12.00/30.00X1.25	851191	10-18	1
Cyl, Hyd, 2.00X12.00/30.00X1.25	851192	10-18	2
Cyl, Hyd, 2.00X2.00X42.00X1.25	981710R	10-18	3
Cyl, Hyd, 2.00X2.00X42.00X1.25	981710L	10-18	4
Cyl, Hyd, 2.75X2.00X1.125 Rod	983421	10-18	5
Cyl, Hyd, Screed Ext, LH, 8816	980430	10-31	4
Cyl, Hyd, Screed Ext, RH, 8816	981050	10-31	3
Cyl, Hyd, Screed Slope, 8816	980420	10-31	1
Cyl, Hyd, Screed Slope, 8816	980420	10-31	2
Depth Screw Assy, Screed	890092SRV	10-13	3
Depth Screw Assy, Screed	890092SRV	10-14	3
Element, Heater, Screed, 40"	987890SRV	10-9	9
Element, Heater, Screed, 40"	987890SRV	10-10	9
Element, Heater, Screed, 40"	987890SRV	10-11	11
Element, Heater, Screed, 40"	987890SRV	10-12	11
Element, Heater, Screed, 40"	987890SRV	10-23	14
Element, Heater, Screed, 40"	987890SRV	10-24	14
Element, Heater, Screed, 46"	987886SRV	10-3	9
Element, Heater, Screed, 46"	987886SRV	10-4	12
Element, Heater, Screed, 46"	987886SRV	10-20	23
Ext Adj Screw Assy	851185SRV	10-9	4
Ext Adj Screw Assy	851185SRV	10-10	4
Ext Adj Screw Assy	851185SRV	10-11	6
Ext Adj Screw Assy	851185SRV	10-12	6
Extension Wear Plate, Electric	985558LSRV	10-23	2

Description	Part Number	Figure Number	Item Number
Extension Wear Plate, Electric	985558RSRV	10-24	2
Flight Screw Assembly	1002729	10-15	5
Flight Screw Assembly	1002728	10-16	5
Grease Fitting, .250-20	900612	10-22	2
Grease Fitting, .250-28	140610	10-25	9
Grease Fitting, .250-28	140610	10-26	9
Group, Screed Base 8500 Series Elec	989377	10-3	1
Guard, LH Screed Ext Hinge	851180LSRV	10-9	16
Guard, LH Screed Ext Hinge	851180LSRV	10-11	15
Guard, RH Screed Ext Hinge	851180RSRV	10-10	16
Guard, RH Screed Ext Hinge	851180RSRV	10-12	15
Hand Grip, Flight/Depth Screw	870276	10-13	17
Hand Grip, Flight/Depth Screw	870276	10-14	17
Hand Grip, Flight/Depth Screw	870276	10-15	7
Hand Grip, Flight/Depth Screw	870276	10-16	7
Hand Grip, Flight/Depth Screw	870276	10-25	4
Hand Grip, Flight/Depth Screw	870276	10-26	4
Handle, Flight Screw	1002720	10-29	2
Hinge Assembly	1002735	10-11	3
Hinge Assembly	1002736	10-12	3
Hydraulic Motor, Screed Vibrator	983405	10-5	6
Hydraulic Motor, Screed Vibrator	983405	10-6	6
Hydraulic Motor, Screed Vibrator	983405	10-21	6
Insert, 3-Jaw Coupling	280040	10-5	4
Insert, 3-Jaw Coupling	280040	10-6	4
Insert, 3-Jaw Coupling	280040	10-21	4
Insert, Screed Ext, Elec, 4 Adj	985563	10-23	1
Insert, Screed Ext, Elec, 4 Adj	985564	10-24	1
Jointer Assy, 8515, LH	983308SRV	10-13	1
Jointer Assy, 8515, RH	983309SRV	10-14	1
Kit, Lower Flight Screw Assembly	1002719	10-29	5
Knob, Revolving Ball	981574	10-29	4
Light, Red, Dash, .50 Hole	31983	10-17	3
Light, Red, Dash, .50 Hole	31983	10-30	3
Locking Bar, Crown And Valley	988376	10-3	5
Locking Bar, Crown And Valley	988376	10-4	5
Locknut, Spanner	981451-01	10-29	12
Nut, .375-16 Lock	143-3	10-11	9
Nut, .375-16 Lock	143-3	10-12	9
Nut, .375-16 Lock	143-3	10-23	20

Illustrated Parts List (IPL)



Description	Part Number	Figure Number	Item Number
Nut, .375-16 Lock	143-3	10-24	20
Nut, .437-14 Hex	116-4	10-9	18
Nut, .437-14 Hex	116-4	10-10	18
Nut, .500-13 Hex	116-5	10-20	17
Nut, .500-13 Hex	116-5	10-30	14
Nut, .625-11 Hex	116-7	10-27	9
Nut, .625-11 Hex	116-7	10-28	9
Nut, .750-10 UNC Hex Jam	116-8-1	10-13	4
Nut, .750-10 UNC Hex Jam	116-8-1	10-14	4
Nut, .750-10 UNC Hex Jam	116-8-1	10-25	6
Nut, .750-10 UNC Hex Jam	116-8-1	10-26	6
Nut, .875-9 Hex	116-9	10-13	8
Nut, .875-9 UNC-2B Nylon Lock	987396	10-9	15
Nut, .875-9 UNC-2B Nylon Lock	987396	10-10	15
Nut, .875-9 UNC-2B Nylon Lock	987396	10-14	8
Nut, 1.00-14 Hex Jam	115-10-1	10-20	29
Nut, 1.00-8, GR5 Hex	80045	10-27	5
Nut, 1.00-8, GR5 Hex	80045	10-28	5
Pin, Clevis, 1.00X3.25 W/1.5HD	240030	10-27	6
Pin, Clevis, 1.00X3.25 W/1.5HD	240030	10-28	6
Pin, Cyl Mount	981661	10-4	10
Plastic Shim Stock	982583	10-29	7
Plate Assembly, Main Wear, 8816 Electric	987936SRV	10-20	26
Plate, Pivot Cover	981711	10-4	9
Plate, Rail Mount	981656	10-4	14
Plate, Rail Mount	981656	10-4	15
Plate, Screed Cover, LH	985148	10-4	20
Plate, Screed Cover, RH	985147	10-4	19
Plate, Slide Mount	980243	10-20	7
Plate, Slide Mount	980243	10-20	8
Potentiometer	980640-01	10-29	20
Power Cable, Ultra Sonic	982796	10-13	15
Relay, 12VDC, DPST ,25 AMP, N/O	985141	10-17	9
Relay, 12VDC, DPST ,25 AMP, N/O	985141	10-30	11
Relay, Time Delay, Off, 10 Amp	988231	10-17	7
Relay, Time Delay, Off, 10 Amp	988231	10-30	8
Remote Pod, Ultra Sonic	982795	10-13	14
Remote Pod, Ultra Sonic	982795	10-14	14
Rnd, .688x43.50, CRS	854447	10-9	8
Rnd, .688x43.50, CRS	854447	10-10	8

Description	Part Number	Figure Number	Item Number
Rnd, .688x43.50, CRS	854447	10-11	10
Rnd, .688x43.50, CRS	854447	10-12	10
Screed Arm, LH	980393L	10-27	1
Screed Arm, RH	980393R	10-28	1
Screed Base, 8515 Electric Slope	985547	10-4	1
Screed Base, 8515 Electric Slope	985547	10-4	6
Screed Frame Assembly	985528	10-20	1
Screw Assy, Depth	983515SRV	10-25	5
Screw Assy, Depth	983515SRV	10-26	5
Sensor, Ultra Sonic	982794	10-13	16
Sensor, Ultra Sonic	982794	10-14	16
Sensor, Ultra Sonic	980540	10-25	19
Sensor, Ultra Sonic	980540	10-26	19
Shaft, Cylinder Mount	980256	10-20	21
Shaft, Tilt Screw Swivel	980457	10-25	10
Shaft, Tilt Screw Swivel	980457	10-26	10
Slide Adjuster Assy	980261	10-23	7
Slide Adjuster Assy	980261	10-24	7
Slide Assembly, Extension	980225SRV	10-22	1
Slide Plate Assembly	1002181	10-8	2
Slide Plate Assembly with Chrome Rods	1002186	10-8	1
Slide, Adjuster Assy	981994	10-23	9
Slide, Adjuster Assy	981994	10-24	9
Snap Ring	851256	10-8	5
Snap Ring	980380	10-22	4
Stairs, Lateral Support Tube Assy	1002717	10-30	12
Switch, Push Button	982249	10-17	4
Switch, Push Button	982249	10-30	4
Switch, Toggle	851393	10-15	1
Switch, Toggle	900030	10-15	2
Switch, Toggle	900030	10-15	3
Switch, Toggle	851393	10-16	1
Switch, Toggle	900030	10-16	2
Switch, Toggle	900030	10-16	3
Switch, Toggle	900030	10-29	16
Switch, Toggle	900030	10-29	17
Switch, Toggle	900030	10-29	18
Switch, Toggle	851393	10-29	19
Switch, Toggle, SPST, 2-POS	851391	10-17	5
Switch, Toggle, SPST, 2-POS	851391	10-30	5

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Description	Part Number	Figure Number	Item Number
Telspar, Assembly	981643R	10-20	20
Telspar, Assembly	981643L	10-20	20a
Tilt Screw	981099SRV	10-25	8
Tilt Screw	981099SRV	10-26	8
Tilt Screw, Jointer Assy	890081SRV	10-13	12
Tilt Screw, Jointer Assy	890081SRV	10-14	12
Timer, Elec	985142	10-17	6
Timer, Elec	985142	10-30	7
Top Rail, 8500 Screed Ext	855784	10-3	11
Vibrator	855535	10-21	2
Vibrator Housing, LH	982965L-1	10-5	2
Vibrator Housing, RH	982965R-1	10-6	2
Vibrator Housing, w/o Motor	1002726	10-21	1
Walk Board Brkt	985163	10-7	2
Washer, Flat, .375 SAE	930019	10-25	14
Washer, Flat, .375 SAE	930019	10-26	14
Washer, Flat, .437 SAE	119-4	10-25	11
Washer, Flat, .437 SAE	119-4	10-26	11
Washer, Flat, .625 SAE	119-7	10-27	8
Washer, Flat, .625 SAE	119-7	10-28	8
Washer, Flat, .750 SAE	119-8	10-20	13
Washer, Flat, 1.00 SAE	119-10	10-20	30
Washer, Lock, .250	118-1	10-11	18
Washer, Lock, .250	118-1	10-12	18
Washer, Lock, .250	118-1	10-23	17
Washer, Lock, .250	118-1	10-24	17
Washer, Lock, .375	118-3	10-9	13
Washer, Lock, .375	118-3	10-10	13
Washer, Lock, .375	119-4	10-11	17
Washer, Lock, .375	119-4	10-12	17
Washer, Lock, .375	80162	10-20	25
Washer, Lock, .500	80164	10-13	9
Washer, Lock, .500	118-5	10-14	9
Washer, Lock, .500	118-5	10-25	16
Washer, Lock, .500	118-5	10-26	16
Washer, Lock, .625 SAE	118-7	10-21	7
Washer, Lock, Bearing	981451-02	10-29	11
Washer, Tongued	981451-03	10-29	10
Wear Plate Assembly, Electric	987216SRV	10-3	7
Wear Plate Assembly, Electric	987216SRV	10-4	13

Description	Part Number	Figure Number	Item Number
Wear Plate, End Gate, 8515	982963SRV	10-14	7
Wing Bolt, .375-11X2.0	920070	10-25	13
Wing Bolt, .375-11X2.0	920070	10-26	13
Wiring, Element, Heater Pigtail	985699-03	10-3	9a
Wiring, Element, Heater Pigtail	985699-03	10-4	12a
Wiring, Element, Heater Pigtail	985699-03	10-9	9a
Wiring, Element, Heater Pigtail	985699-03	10-10	9a
Wiring, Element, Heater Pigtail	985699-03	10-11	11a
Wiring, Element, Heater Pigtail	985699-03	10-12	11a
Wiring, Element, Heater Pigtail	985699-03	10-20	23a
Wiring, Element, Heater Pigtail	985699-03	10-23	14a
Wiring, Element, Heater Pigtail	985699-03	10-24	14a

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